

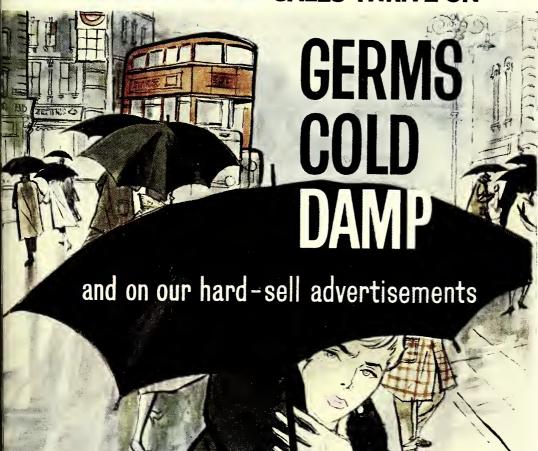
The CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

NOVEMBER 26 1960

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ALL SEASON THROUGH

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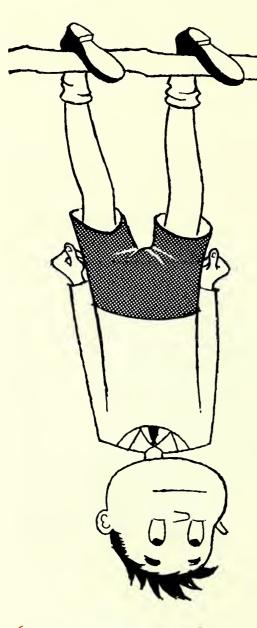
make the most of the murk

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Imperial Chemical Industries Limited Pharmaceuticals Division Wilmslow Cheshire

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suspension of Distaquaine' V-K (potassium penicillin V) 125 mg. per 5 ml. Bottle of 60 ml. (approx. 2 fl. oz.) The Distillers Company (Biochemicals) Limited. Owners of the trade mark Distaquaine



for those who favour suspension

'DQV-K' Suspension

Volume 174

NOVEMBER 26, 1960

No. 4215

Proposed Poisons Legislation

CHANGES IN POISON LIST AND RULES

THE Home Office has announced that Statutory Instruments are being prepared to give effect to the following further changes in the Poisons List and Poisons Rules. The changes are additional to those previously announced (C. & D., July 30, p. 125).

1. The following substances will be added to Part I of the Poisons List and to Part B of the Fourth Schedule to the Poisons Rules:—

2-chloro-9-(w-dimethylaminopropylidene)-thioxanthene (Taractan)

'-chloro-2-methylamino-5-phenyl-3H(1:4) benzodiazepine-4-oxide and its salts (Librium).

Diethylpropion and its salts (Tenuate). Ectylurea (Nostyn).

Ethchlorvynol (Placidyl).

Ethionorypiol (Placiay).

Sthoheptazine and its salts (Zactane).

-imino-5-phenyloxazolidine-4-one and its salts (Kethomed).

Mephentermine and its salts (Mephine). Methaqualone and its salts (Melsedin). Phendimetrazine and its salts (Plegine).

-phenyl-2-pyrrolidinopentane and its salts (Villescon).

Propynylcyclohexanol carbamate (Merinax).

Styramate (Sinaxar).

Tetrabenazine and its salts (Nitoman).

2. Demecarium bromide (Humorsol) will be added to Part I of the Poisons ist and to the First Schedule and Part 1 of the Fourth Schedule to the Poisons Rules.

3. Endothal and its salts will be added o Part II of the Poisons List and to he First Schedule, Part A of the Fifth schedule, paragraph 6 of the Seventh schedule, and the Eighth Schedule to he Poisons Rules.

4. Azinphos-methyl (Gusathion) and phosphamidon will be added to the list of phosphorus compounds in Part II of the Poisons List and in the First, and Chird, Parts A and B of the Fifth, the eventh and the Eighth Schedules to the Poisons Rules, and will also be dded to the Sixteenth Schedule.

Approved Names

RECOMMENDATIONS TO WORKING PARTY

HE General Medical Council and the ritish Pharmacopæia Commission have ecommended to the Government Vorking Party reviewing the control f medicinal substances that manufacturers should be required to indicate approved names of any drugs on he labels of a medicine or a preparation, and in all advertising matter. They lso recommended that the council hould receive statutory authority for

the issue of approved names for drugs, and that, while manufacturers should be left free to use their own proprietary names, it should not be legal for them to use any official non-proprietary name for a drug other than the approved name.

Bradford Speech Day

" DON'T RUSH INTO PROPRIETORSHIP "

A WARNING against rushing into ownership of a pharmacy was given to students of the pharmacy department, Bradford Institute of Technology, by Mr. H. S. Grainger (vice-president, Pharmaceutical Society), when he addressed them at the department's first official speech day on November 16. In the past, said Mr. Grainger, there had been a temptation to some young pharmacists to do just that, and Mr. Grainger did not believe it had been in the best interests of the pharmacist. the profession, or the public, All too often, in order to gain a livelihood, pharmaceutical work had been wedded to the sale of merchandise that could be sold by persons with no professional training. "After all the time and money involved in turning out pharmacists, one is bound to ask how long the Government will regard it as justifiable to spend so much money on turning out professional people who, once qualified, spend perhaps only a small fraction of their time in carrying out the duties for which they were trained." Mr. Grainger appealed to the students to regard the profession as an ideal, and not simply a means of earning a living. Prizes were presented by Mr. Grainger to James E, Ashworth (practical pharmaceutics) and to Alan Brierley, Ernest Perkin, John Maude, Peter Vyner. Miss Helen M. Peck. Miss Marion Barron and John D. Stanton. Mr. Grainger also presented the president of the Pharmacy Students' Association (Mr. I. S. Burt) with a pendant of office donated by Messrs. W. Wright Hudson (one of the Institute's governors) and F. N. Appleyard (a former head of the department). Dr. J. M. Rowson (present head) presided at the ceremony, which was also attended by Dr. E. G. Edwards (principal of the Institute).

Drugs in London County

SCIENTIFIC ADVISER'S REPORT FOR 1959

EXAMPLES are quoted in the annual report (1959) of the Scientific Adviser to the London County Council (County Hall, London, S.W.1, price 1s, 3d.) of advice given about chemicals, drugs and medical supplies. They include details of the toxicity of newly developed pesticides, the checking of ambulance equipment; the disposal of out-of-date drugs, the safe disposal of surplus chemicals from school laboratories; and the assaying of samples of cod-liver oil. An item of special pharmaceutical interest is the note that "a request was made that sugarcoated tablets should be recommended for issue to persons attending clinics



FULFILLING A NEED: Having read in The CHEMIST AND DRUGGIST (August 20, p. 210) of the need for another pharmacy in the Isle of Dogs, Poplar, London, a situation that was causing concern to the London Executive Council, Mr. C. H. F. White, M.P.S., decided to look into the matter. The result was that he took over in October premises at 73 West Ferry Road, formerly used as a branch pharmacy of a multiple company. Mr White has another pharmacy at New Addington, Surrey, and travels to the Isle of Dogs every a two-hour morning journey-from his home at Biggin Hill, Kent.



GOLFERS AT DINNER: Officials and guests at the dinner of the Edinburgh Chemists' Golf Club held in Edinburgh, on November 9, are shown here with the club's trophies. Principal prize-winners were Mr. W. L. Smith (club champion, seen standing at extreme left), and Mr. J. Ferguson (runner-up). Winner of the club trophy was Mr. H. Semple.

on the ground that uncoated tablets were fragile. It was pointed out that, although the supplies department would provide sugar-coated tablets if those were prescribed, they might be mistaken by young children for sweets, with possible serious consequences. Uncoated tablets were bound to be fragile on account of the need for easy disintegration and would have to be issued in protective containers. Certain proprietary brands of chlorxylenol disinfectants were found to comply with the British Pharmacopæia. Although two preparations of another disinfectant were marketed at different prices, they were shown to contain equivalent amounts of the active ingredient.

A New Research Body

FOOD, DRINK AND COSMETICS

A BRITISH Industrial Biological Research Association has been formed to study the possible effects upon health, and to ensure the harmlessness of, substances ingested in food, drink and cosmetics. The Association will receive a grant from the Department of Scientific and Industrial Research. Its main object, after establishing a biological research station, is to investigate the effects of processing, flavouring or colouring aids in food and substances that may get into it from pesticides, plant, packaging materials or utensils. Results of related research in other establishments throughout the world will be studied and interpreted for members. Support to a total sum of about £23,000 a year for the first five years has already been given by ninety com-panies in the food, chemical, essences, plastics, packaging and cosmetics in-dustries, and the Department has agreed to match the industrial sub-scription £1 for £1 to a total of £47,000 a year. The Association hopes to build laboratories at Leatherhead, Surrey; most of the buildings should be completed by the end of 1961 and the research station should be fully operative by mid-1962. The temporary head-quarters is at 11 Green Street, London, W.1.

Medical Photography

AN EXHIBITION IN LONDON

PHOTOGRAPHIC prints and transparencies illustrating pathological conditions encountered in medical and surgical practice were displayed at an exhibition of medical photography presented at the London headquarters of the Royal Photographic Society, Nov-ember 7-20. The award for the best photomicrograph was claimed by a picture of an infant rib showing the disorganised bone and cartilage tissue of rickets. A technique for recording the fluorescence of skin lesions under ultraviolet radiation was explained in colour, and another modern process of note was demonstrated in a photograph of a cobalt-60 therapy unit. The successful treatment of fungal skin infections with griseofulvin was illustrated in sets of photographs showing areas of skin before and after treat-Two contributions from the Wellcome Research La'boratories showed the extraction of a chick embryo after inoculation with yellow fever vaccine, and examination of an egg for fertility. Stages in the production of distemper and hepatitis vaccines were explained in colour transparency charts supplied by Glaxo Laboratories, Ltd. An award by the Association of British Pharmaceutical Industries was won by L. Beard, A.I.B.P., A.R.P.S. (Westminster Medical School, London,

Larger Packages

SALES INCREASED BY OVER 5 PER CENT.

"THERE is evidence of a significant swing to the sale of larger sizes of chemists' goods in this country, and indications are that the trend is likely to continue with increasing emphasis, as it has done in the U.S.A." That statement appears in the first *Nielsen Researcher*, Oxford edition, published by A. C. Nielsen Co., Ltd., Headington, Oxford, The evaluation of the swing involved the analysis of the sales trends of thirty-four brands in fifteen product classes covered by the Niclsen Drug

Index. "On average the larger sizes moved up from a 24-2 per cent, share of sterling sales in 1955 to 29-5 per cent, in 1929." In the same issue is an up-to-date assessment of the "Originator's Advantage." Nielsen records have shown that the pioneer enjoys a real and continuing advantage in the market, but "today, more than ever before, there is a greater risk connected with the introduction of a new type of product. However, whilst the originator faces costly odds, he may also reap commensurate rewards."

Electric Shaver Parts

APPLICATION FOR DRAWBACK OF DUTY

THE Board of Trade are considering an application for the allowance of drawback of duty on the following imported blades and heads, and base metal parts of blades and heads, for electric shavers (classified for duty purposes under tariff heading 82.11) when those parts are re-exported. Representations which interested parties may wish to make should be addressed in writing to the Board of Trade, Tariff and Import Policy Division, Horse Guards Avenue, London, S.W.1, by December 9.

IRISH NEWS

THE REPUBLIC

Trends in Pharmacy

STUDENTS TOLD OF IMPORTANT EVENTS

THE importance of the pending revision of the Pharmacy Act and of the new degree course was stressed at the annual meeting of the Irish Pharma-ceutical Students' Association, held in Dublin on November 8. Mr. D. J. Kennelly (a member of the Council of the Pharmaceutical Society of Ireland) referred to the rapid development of Irish pharmacy since 1945, and added "The greatest thing that has happened in pharmacy since the establishment of the Society . . . is the change-over to the degree course. It will uplift the status and standard of pharmacy and put the Irish pharmacist on a plane he should have been on long ago. If, and when, you become associated with the University, I hope that . . . Irish pharmacy students will continue to have their own student group within the University, because close liaison among yourselves will help provide a better future in pharmacy." Mr. Kennelly moved the adoption of the report of Mr. J. P. Crilly (president of the Association). Mr. Crilly had described as "the greatest achievement of the year" the recognition of the Association as a constituent organisation of the Union of Students in Ireland, Mr. T. Cashman, seconding the adoption proposal, said it was only after having heard the president's report that members realised all the work that had been done during the year. Proposing the adoption of the report of Mr. B. M. Mossiieman (treasurer), Mr. J. G. Coleman (registrar of the Pharmaceutical Society of Ireland) said "Just now pharmacy in this country is in a period of flux. Inevitably there will be a certain amount of dissatisfaction, irritation and impatience whilst matters are being put together, and I appeal to all students

to make due allowance for any delays in getting things done." The Society believed the new degree course would start next October. The appropriate Minister had indicated that he was prepared to sanction suitable regulations so soon as the Council submitted them to him, and the Council hoped to be able to draft them soon. Concluding he said that the fact that the Association had shown a profit of £32 on the year's activities reflected great credit on all concerned. Mr. Mosiieman, in his report, said the Association had a credit balance of £197, a total of £110 having been realised on dances during the year. Both reports were adopted. The following council was elected: Misses A. Isdell, P. Fitzgerald, Messrs. P. Kilgarrif, J. Sewell, T. Cashman, J. McCarville, T. Molloy, M. Barrett, D. Murphy, and the outgoing president, Mr. J. P. Crilly. At the first meeting of the new council on November 15, the following officers were elected: President, J. Sewell; Secretary, F. M. Cahill; Treasurer, F. Molloy; Vice-president (and international liaison secretary), T. Cashman; Chairman of Education (on the executive of International Pharmaceutical Students' Federation), Miss A. Isdell; Delegate (to Union of Students in Ireland), D. Murphy.

NEWS IN BRIEF

THE official index of retail prices at October 18, was 111-4 (January 17, 1956=100) compared with slightly under 110-5 in September.

A MAP on the scale of 10 miles to the inch showing the density of population of most of England and Wales at the 1951 Census has been published by the Ordnance Survey.

A NEW edition of the Directory of Employers' Associations, Trade Unions, Joint Organisations, etc. (H.M. Stationery Office, price 21s.) has been compiled by the Ministry of Labour.

IN a tour of East Anglia recently, the Duke of Edinburgh visited the new plant, research and administrative building at King's Lynn, Norfolk, of Dow Agrochemicals, Ltd.

THE first edition of the official journal of the British Academy of Forensic Sciences—Medicine, Science and the Law—has been published by Sweet & Maxwell. It includes a section "Law for the Scientist."

An exhibition presented by Imperial Chemical Industries, Ltd., entitled "Some New Developments in Decorative Plastics" is being held at the Mayfair Rooms, 32 Bryanston Street, London, W.1, from 10 a.m. to 8 p.m., November 18–30 inclusive.

A ROYAL medal for 1960 is being awarded to Sir Roy Cameron, F.R.S. (professor of morbid anatomy at University College Hospital Medical School, University of London), for distinguished contributions in the field of cellular pathology.

SUGGESTIONS are being invited by the Institution of Chemical Engineers, 16 Belgrave Square, London, S.W.1, for papers for the third congress of the European Federation of Chemical Engineering to be held in London, June 20-26, 1962.

TOPICAL REFLECTIONS

By Xrayser

Youth

The reasons for choosing pharmacy, or any other profession, as a career are many and varied. It may be that heredity and environment play a part, more particularly if there are a family tradition and a well-established business in the background (though one frequently hears pharmacists say that they would shoot their sons rather than allow them to become as they are, singularly few of the group make their appearance in court on that charge). It may be that a youth with a liking for scientific subjects at school feels that pharmacy offers scope for his talents. It may be that, since the family circumstances do not permit a life of indolence, he has chosen pharmacy without knowing why, for he might just as easily have found himself concerned with balancing the ledgers in a bank, "selling" insurance, instructing reluctant youth in the mysteries of Euclid, building bridges or snatching brands from the burning. But, amongst the crosssection that constitutes the average year of pharmaceutical students, there must always be some who have chosen the path for the best of all reasons —that they would like to be pharmacists. It is good advice, therefore, that is offered to students by the president of the Pharmaceutical Society. Mr. Tom Reid said at Leicester (p. 636): "Live up to the high ideals of our founders so that you, in turn, may pass something that is worthwhile on to the next generation of pharmacists." Mr. Reid might have been still more forthright by declaring: "Get back to the high ideals of our founders." A dispassionate judgment of pharmacy today, based solely on the appearance some of it presents to the public view, suggests that our founders are not being well served. Cheap jewellery and trinkets seem to me to be a dubious compliment to Jacob Bell and his inspired band. One hopes that the present generation will find a comfortable living combined with professional satisfaction.

Changing times

Mr. Reid is not the only member of Council who has been addressing pharmaceutical youth, for the chairman of the Education Committee has had the opportunity of talking to the students in Glasgow (C. & D., November 12, p. 612). I was interested in Mr. Maplethorpe's statement that it is now more important than ever before that the young pharmacist should, at the commencement of his career, have a clear picture of his own aspirations and responsibilities. Desirable as that may be, it must be a disadvantage that contact with actual practising conditions lies so far in the future. Aspirations conceived at the commencement of a college career and nursed in the cloistered academic atmosphere may be found to be out of tune with the reality. It could at least be said for the apprenticeship, with all its drawbacks, that the beginner knew quite early what he had let himself in for-in time, in fact, to let himself out if he so wished. It is now generally understood that the practical training follows the academic course. In many cases, that is the first insight into actual practising conditions, and the experience may not be spiritually rewarding, regardless of material conditions. The training seems to be in danger of being based to some extent on hopes and ideals which may some day be realised. Oh for the day when practising conditions match such hopes and ideals. Meanwhile, an earlier encounter with real life should be considered.

Matter of gravity

And now to lighter matters—or perhaps, in view of the properties of mercury, I should say heavier matters. Browsing in the bookstalls frequently throws light on the habits of our forefathers in the art of healing. I was recently rewarded by the acquisition of a medical manual of 1783. In desperate cases of inflammation of the intestines, the author recommended quicksilver. "This may be given in the quantity of several ounces or even a pound, but should not exceed that. When quicksilver is given in too large quantities it defeats its own intentions, as it drags down the bottom of the stomach. In this case the patient should be hung up by the heels, in order that the quicksilver may be discharged by his mouth."

How to Give the Branch System New Life

A PAPER AND DISCUSSIONS AT SOUTHERN AREA CONFERENCE

IDEAS on how to get pharmacists to play a greater part in the affairs of their Society were put forward and argued about at Southampton on November 16. They were developed in a paper presented by Mr. J. R. Phillips (secretary, Bournemouth branch) entitled "A New Deal for the Branches."

The occasion was the tenth annual regional pharmaceutical conference for the mid-southern area, organised jointly by the Bournemouth, Portsmouth and Southampton branches of the Pharmaceutical Society, Mr. Phillips located the causes of members' present apathy and indifference in the attempt by the national body to maintain direct contact with its 27,000 members, in his view an impossibility. His remedy, in essence, was to channel many of those contacts through the local branches, to which he would also assign certain important tasks of applying the policy decisions of the Council.

A Model . . . " on Paper '

On paper, said Mr. Phillips, the structure and organisation of the Pharmaceutical Society would probably seem to some one outside pharmacy to be a model of democratic organisation within the bounds of a Royal Charter. The governing body (the Council) was entirely elected. [He had overlooked, of course, the three members appointed by the Privy Council, though the oversight does not necessarily invalidate his argument.—EDITOR.] All members had a vote and, whilst in theory there was not regional representation, in practice something of the sort existed. Every pharmacist was a member of a reasonably compact branch in which policy could be freely discussed, and the deliberations of the branches were annually presented to the Council at Branch Representatives' meetings. Majority decisions of those meetings were dealt with by the Council, which presented for approval at the next such meeting a report on the action it had taken. Council policy was presented to members through its official journal, and plenty of unofficial journals, with full access to information, were in a position to criticise and comment. Branches were encouraged to group together and to hold regional conferences, and a national Conference, not entirely controlled by the Council, was free to discuss matters of a professional nature.

Why, then, had there been in recent years so much criticism of the leadership, as evidenced by the row over educational policy when the majority of members had considered at the time that the Council was acting against their better interests; and the muddle over central-nervous-system drugs, when most members had thought, at the time, that the Council's action was indefensible? Where there was no criticism there was—even worse—apathy. There were grouses about the lack of good publicity and other matters, and at the last Branch Representatives' meeting the report on the year's work of the Council had been rejected unanimously.

The fault, said the speaker, did not lie with an individual or individuals. All in authority were, he was sure, doing all they could to prevent further misunderstandings. The underlying cause was the organisation itself, and in his view the weak link was at branch level. By making certain modifications to the branch. much of the dissatisfaction and criticisms could be avoided. The branch must be more than a convenient method of arranging local programmes of lectures and dances. It should be a true linka half-way stage-between the individual member and headquarters. It should be a "pumping station capable of being used in both directions, through which should flow information, authority, advice and opinion." Problems should be fed through from headquarters to branch level as they arose. Comment and opinion from members should filter back by the same route, soon enough

through from headquarters to branch level as they arose. Comment and opinion from members should filter back by the same route, soon enough to be considered by the Council before it took action. That would not impair but strengthen, he argued, the authority of the Council. A branch that was largely ignored and starved of information by headquarters could not be strong, and no governing body could deal successfully on a direct basis with

27,000 members.

The basic needs of the branches were INFORMATION, PURPOSE, AUTHORITY and PUBLICITY—in that order. flow of information via the branches could have prevented past dissatisfac-tions. As to purpose, the branch should be made responsible for recruitment in its own area, and should be the only authority approaching schools and employment officers. It should be able to supply headquarters with the pulse of local opinion whenever called upon to do so; should be a store of information for its members; and should be the only logical contact between members and headquarters on a wide range of subjects. Sufficient authority should be given to the branch to enable it to maintain a high level of moral and ethical conduct within its area. The branch should also be responsible for external publicity in its own area, though accountable to headquarters when necessary. The bulk of publicrelations work, in its widest sense, was essentially a local matter.

Distractions

Many distractions in their places of practice served to take members' minds off pharmaceutical affairs, so the branch must have more to offer: it must be more powerful, and its internal publicity must be more active if it were to maintain, let alone increase, the awareness among members of the functions of their Society. "Only through the branch can apathy be dispelled. There is no other way." The speaker visualised something more like a local conference committee, in which each member was responsible for a particular aspect of activity.

When the conference chairman (MRS. M. E. YOWARD, Portsmouth) opened

the meeting for discussion, it soon became evident that some members saw hope of better things only in the awakening of the individual: others in action from Bloomsbury Square. A measure of agreement was evident on the opener's views about the pipelining of information from the Council to the branches, but some members expressed strong opposition to any local responsibility for ethics, discipline and external public relations.

Setting in reverse one of the questions on the order paper, MR, N. FRANCIS, Portsmouth, asked whether individual members were doing enough for their branch. As a teacher in pharmacy he had not ceased to put forward the idea that, after qualifying, members should work for their branch. He thought that too much was made of non-attendance at branch meetings as an index of apathy. His own observation was that, over a whole session, quite a high percentage of members showed interest in some aspect of branch activities.

Whose the Initiative?

That the essential problem would not be solved by the methods advocated by the opener was argued by MR, F. MURLEY, Southampton. A branch provided with the information, purpose and authority demanded, would, in his view, perform no differently than at present unless its publicity had in some way reached those other members who did not normally attend branch meetings. The initiative must come from the top. In the field of public relations, too, there were only too many examples of misinformation appearing in the public Press, too often through absence of immediate information from headquarters. When newspapers had interviewed local pharmacists, the outcome had not usually been too happy.

A divided interest, from which phar-

A divided interest, from which pharmacy would probably always suffer, was put forward by MR, F. S. LEAPER, Southampton, as the cause of much of the profession were apt, when told that particular matters could not be discussed at a branch meeting, to ask "To whom can we appeal for enlightenment?" However well branch activities were publicised, what progress could possibly be made if business points could not be dealt with at a branch meeting? The professional and commercial aspects must somehow be brought together. In present conditions the professional side of pharmacy was being subsidised by the commercial, and it was not possible to pay the salaries expected by the (now more professionally trained) newcomers into pharmacy. With the Society refusing to take an interest in economic matters, pharmacists were falling between two stools.

Speaking as one who had been a branch secretary for a number of years. MR. H. RIDEHALGH, Bournemouth, said that apathy could be broken. He agreed that members should do more for the branch, but said it was im-

rtant that the branch should do mething for its members. In Bourneouth two steps recently taken had en the issue of a monthly letter to embers and the compilation of a gister of locums. There was no easy swer to the problem: it lay in "a

of little things." An early start—during college—to ercome apathy was suggested by a ident from Portsmouth, MR. KING, ho said that many students came to llege from school not knowing what armacy really implied. During the llege course some lecture on branch ganisation should, he thought, be ven, a suggestion that was strongly pported by MR. N. FRANCIS (senior cturer at the school of pharmacy, prismouth Technical College). High aise for the attention given to Portsouth students by the local branch of e Society was given by MR. M. H. AYLOR, Bournemouth, who referred to ockets of apathy even among stuents that no amount of prompting by lleagues seemed able to overcome.
r. Taylor was against any authority ing given to the local branch in dis-

plinary matters. Some scheme was wanted by which anch jobs could be shared, said MR.

N. GRIFFITHS, Portsmouth, speakg as one who was a branch secretary r six years. He had had "a wonderkick" out of doing the work but was, he said, "nearly a full-time b." Sharing the burden would not ally ease the secretary's situation but other members something to

Any suggestion that the Society's ouncil was concerned only with triviities was strongly refuted by MR. J. C. DOMFIELD, Portsmouth (a member of puncil), who cited two major matters ducation and the C.N.S. drugs) hich had cropped up in recent months. r. Bloomfield thought a lot could done by the Society in supplying eakers to address students, but the vitation must come in each instance om the head of the school.

Arguing against too much authority ing given to the branch, MR. F. URLEY, Southampton, said that one iticism of the Council had been for its ck of decision, leaving pharmacists icertain what they should do. When directive did come, however, it plied to all: branch policy, on the r. Murley was supported by Mr. E. Southampton, who "dreaded to ink" what would barner her hand, might change overnight. what would happen if the buncil had to wait for branch decions to be taken before considering a atter. Another point to be investi-ted was whether, under its Charter, e Society had any power to delegate authority to branches. The reply ven by MR. PHILLIPS to that suggeson was that much could be done thout any change of the Charter. e Council must, he agreed, make licy, but need not administer it.

A diagnosis of exhaustion rather an of apathy was suggested by MR. RSONS, Southampton. Members, he id, could see no change from ten ars previously in the topics under scussion. He also cited instances of buncil directives that had been flouted, apparently with complete impunity. If greater authority were given to the branch, asked Mr. YOWARD, Portsmouth, who would wield it? The chairman? The committee? The secretary? As secretary he did not want the task. To function in that way the branch would need paid officials.

RATING AND VALUATION BILL

End of industrial derating foreshadowed

THE Government proposes that from 1963 all industrial premises and freight transport premises, not owned by the British Transport Commission, at pre-sent rated at 50 per cent, of their 1956 rental values, shall be fully rated. That proposal is included in the Rating and Valuation Bill (H.M. Stationery Office, price 2s.), just published.
Withdrawal of the 50 per cent, relief

does not, however, mean that the share of rates borne by industry will be doubled. The simultaneous rating at full value of shops, offices, etc. (80 per cent. at present) and the rating of houses at current instead of 1939 values will, it is expected, substantially offset any increase in industry's share of the total rate burden. On April 1, 1959, domestic property accounted for 47.62 per cent, of the total rateable value for England and Wales, and commercial and miscellaneous property for 40.79 per cent. Industry and freight transport had a rateable value after rerating in 1959 of about £80 millions (over £77 millions being the total for industry alone) which was about 11½ per cent. of the total rateable value for England and Wales. Because it seems possible that in 1963 the share of the rates falling on householders, at least in some areas, may sharply increase as a result of the change from 1939 to current values, and because it will not be possible watil code. sible until early in 1962 to get a clear picture of the pattern of the increases, the Bill seeks to empower the Minister of Housing to cushion the increase for householders by derating houses (by a percentage to be fixed by order) for the five-year period of the 1963 lists. The order, which will require the approval of both Houses of Parliament, may fix different percentage reductions for different counties and county boroughs: that will allow for the possibility that values may be found to have altered since 1939 much more greatly in some areas than others.

The Bill also includes two recommendations made in the report of the Ritson Committee on the rating of plant and machinery (C. & D., February 7, 1959, p. 131), that were not included in the Plant and Machinery (Rating) Order, 1960. They are for the exemption from rating of small movable plant and of process plant that would otherwise be rateable solely because it is incidentally used for draining the premises on which it is situated. lar legislation is being introduced for

Surgery "chaos" without popular drugs LORD FRASER SPEAKS ON PROPRIETARIES

"DOCTOR or slave? Which do the public want?" asked Lord Fraser of Lonsdale in an address to the Proprietary Association of Great Britain in London on November 17. Between the harassed general practitioner and utter chaos now stood only the proprietary medicine industry.

"If the simple, safe, everyday remedies were not on sale the unfortunate general practitioner would, at a conservative estimate, have an extra 15,000 visits to his surgery every year. This would almost treble his work, overwhelming him, and not leaving him enough time for proper diagnosis of serious illness.

The proprietary medicine manufacturers valued highly the general practitioner and his knowledge and skill, and so did the public. But the public also respected its own intelligence and ability to cope with minor ailments. A recent survey showed that eight out of ten women did not bother their doctors about colds, but when it came to in-fluenza, seven out of ten did, "That shows uncommon good sense."

Critics of the proprietary medicine industry were apt to condemn self-medication because a proportion of people sometimes ignored the manufacturer's clear instructions and overdosed themselves. Just as many ignored their doctor's instructions and overdosed themselves with the more potent prescribed medicines. It seemed to the speaker as foolish to damn self-medication on those grounds as to damn "do-it-yourself" because a few people received electric shocks when replacing fuses. The doctor was vital to the nation's health, and the industry vital to the overworked doctor's partnership? worthy of the doctor's partnership? A recent editorial in the Practitioner had described the industry's methods of self-con'rol as being "more effective than that in any other country." The editor had added a reference to the tremendous care which was taken in the control of those medical preparations, including their advertising. The industry's code, revised as new medical knowledge was gained, covered all that could be claimed in printed or spoken word and in pictures for a medicine. It without adequate evidence. The code had been adapted to form the British Code of Standards adhered to by the Newspaper Proprietors' Association, Newspaper Society, Advertising Association and Independent Television Authority.

In many parts of the world in which doctors were few, proprietary medicines had to stand alone, the only protection for millions of people. British coderegulated medicines set a standard for

other countries to copy.

The industry was rightly jealous of its organisation and reputation as a private industry self-policed for the public good. On average the prices of advertised medicines had risen far less than the cost of living.

LEGAL REPORTS

Employees Fined

THREE men employed by Francis Newbery & Sons, Ltd.—Victor George Tuc-ker, Nelson Street, Cardiff, John Perrin Thomas, The Philog, Whitchurch, and David Hugh Wembridge, Wordsworth Avenue, Cardiff—appeared before the Cardiff magistrates on November 1. Tucker admitted four charges of stealing razor blades, hair cream and medicines. Thomas pleaded guilty to four similar charges. Both were fined £100. Wembridge admitted three charges of stealing, and was fined a total of £30. A shopkeeper, Frederick Donald Lewis, Rodger Place, Cardiff, admitted four charges of receiving the goods knowing them to have been stolen and was fined a total of £200. Prosecuting solicitor said that the three employees held different positions in the company. Tucker was a member of the dispatch staff, Wembridge a warehouseman and Thomas a driver. The system adopted was that Wembridge supplied Tucker, whose duty it was to load the van, which Thomas drove. The goods were then sold to Lewis and the money split three ways. "The offences eventually came to light," said the solicitor, "when it was found out that Lewis was stocking in his small grocery shop quantities of goods usually sold by chemists." As a result, the police were informed about the matter and a detective sergeant visited Lewis's home, where he discovered a large quantity of cartons bearing the name of the company. When asked about them, Lewis admitted being aware that the goods were stolen. He turned the stock over to the police and, while the sergeant was on the premises, Thomas and Tucker came along with cartons under their arms. They immediately admitted the offences.

COMPANY NEWS

Previous year's figures in parentheses

P. B. COW & CO., LTD.—Mr. B. S. Davies has been appointed deputy chairman. It has also been announced that the registered office of the company has been transferred to Eastbourne Road Trading Estate, Slough, Bucks.

LAPORTE INDUSTRIES, LTD.—The company is to join with American Potash and Chemical Corporation, Los Angeles. U.S.A., to form a new company in the United States to manufacture titanium oxide. The share capital is being divided in the proportion of American Potash 85 per cent., Laporte 15 per cent.

SAVORY & MOORE, LTD.—Group trading profits for the year ended March 31 rose to £238,315 (from £214,673). Deduct minority interests and tax of £117,749 (£109,011), leaving group net profits, after tax, at £120,566 (£105,662). Ordinary dividend, 20 per cent. (same).

GLAXO LABORATORIES, LTD.— The review by the chairman (Sir Harry Jephcott) for the year ended June 30 states that the sales of some of the company's more important products were reduced by the unusually mild winter season and a comparatively low incidence of the commoner winter ailments. In some overseas areas, the per-

sistence of uneconomic prices for antibiotics, due to the continuing exist-ence of surplus capacity in the hands of some major producers, appeared to have become part of the normal pattern of trading Efforts have been concentrated on the speedy introduction and vigorous promotion of new products in both human and veterinary fields. Consolidated sales at home and abroad were 11 per cent, higher than in 1958– 59. The proportion of total turnover and profitability derived from sales made under the National Health Service has steadily fallen, until now it represents "no more than a very modest fraction." Sir Harry continues "Lest it be thought that N.H.S. has provided us with exceptional opportunities for profit, I would again call attention to the record of our pricing policy. Dur-ing the twelve years since the Service came into being, we have been faced with a rise of over 70 per cent, in basic wage rates and of over 20 per cent, in the prices of our raw materials. Yet the prices of the products supplied have fallen, on the average, by no less than $6\frac{1}{2}$ per cent, a year. Taking these facts together, I am entirely satisfied that the continuing profit record of the group as a whole has in no way been achieved at the expense of the Exchequer," he adds.

Sales at home had continued to show progress, due in part to the continuing strength shown by the side concerned with foods, and in part to the satisfactory progress being made in veterinary medicine. In the export market their principal concern this year had been to develop the world-wide interest aroused by griscofullyin

aroused by griseofulvin.

On the trading outlook Sir Harry states that: "There is every reason to expect that to maintain last year's level of trading and profitability in the coming twelve months will prove much more difficult."

Both Allen & Hanburys, Ltd., and Murphy Chemical Co. achieved profits exceeding those of any previous year. (For group accounts see *C. & D.*, October 8, p. 436.)

ILFORD, LTD. — Mr. Rupert A. Withers whilst continuing in his full time executive capacity as deputy chairman is relinquishing his appointment as joint managing director of the company. Mr. James Mitchell has been appointed to succeed in that capacity with Mr. W. H. Dimsdale. Mr. S. T. Ferris has been appointed general sales manager and Mr. J. A. Hill export manager in his place.

New Companies

P.C.=Private Company; R.O.=Registered Office

E. T. W. TAYLOR & CO., LTD. (P.C.).—Capital £1,000. To carry on the business of consulting, manufacturing and general chemists, etc. Directors: Eric T. W. Taylor, M.P.S., and Jasamine H. Taylor, R.O.: 32 Splott Road, Cardiff.

GLEAMY CHEMICALS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in bleaches, disinfectants, etc. Directors: Gerald Falthorpe and John W. Glendinning. R.O.: 31 Market Lane, Dunston, Gateshead.

RUISLIP LABORATORIES, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: Richard C. B. Raymond, dental surgeon, and Ann Raymond. R.O.: 63 Temple Chambers, Temple Avenue, London, E.C.4.

HARRIS & BROOKER (LUTON), LTD. (P.C.).—Capital £100. To carry on the business of druggists and chemists, etc. Subscribers: Cranston G. Walton and Peter E. Creed. The first directors are not named, Solicitors: Waltons, 35 King Street, Luton.

ROBERT CHARLES LABORA-TORIES, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, etc. Directors: Robert C. Iles and Maria F. L. Brandi. R.O.: 159 Stoke Newington High Street, London, N.16.

BAKER & FAIRHEAD, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturing and dispensing chemists, etc. Directors: John B. Baker, M.P.S., and Mary M. Baker. R.O.: 36 Head Street, Colchester, Essex.

CLIFF H. BUCKLEY (CHEMISTS). LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing and dispensing chemists, etc. Directors: Clifford H. Buckley, M.P.S., and John H. Eaves, R.O.: 47 Mosley Street, Manchester, 21.

G. W. ROBSON (CHEMISTS), LTD. (P.C.).—Capital £7,500. To carry on the business of chemists, druggists, etc. Directors: Thomas Melrose, M.P.S., Clifford L. Robertshaw, M.P.S., and George W. Robson, M.P.S. R.O.: 71 High Street, Willington, co. Durham.

W. E. TETLEY, LTD. (P.C.).—Capital £7,500. To acquire certain assets of the business now carried on at Birkenshaw, nr. Bradford, as "W. E. Tetley" and to carry on the business of manufacturers of and dealers in drugs, medicines, etc. Directors: Edward R. Tetley, Laura Tetley and Florence Tetley. R.O.: Parkinsons Chambers, 49 Hustlergate, Bradford.

BUSINESS CHANGES

DR. SINGHA CO., LTD., have removed to 1 Victoria Street, Caernarvon (telephone 2117).

CONTINENTAL LABORATORIES, LTD., are removing to 85 Church Road, Hove, 3, Sussex (telephone: Hove 70599) on December 12.

UNI-PHARMA, LTD., have removed to 229A Shaftesbury Avenue, London, W.C.2 (telephone: Temple Bar 9971)

ALEX. ALLAN & CO., gum importers, etc., are now conducting their business from Walsingham House, 35 Seething Lane, London, E.C.3 (telephone: Royal 7016).

MR. P. ROTHMAN, M.P.S., has opened a pharmacy at 51 Middleton Road, Chadderton, Lancs, and has closed his business at 30 Wasdale Avenue, Bolton, Lancs.

GORDON & GOTCH, LTD., 75 Farringdon Street, London, E.C.4, have acquired the business of Transparent Plastic Containers, Ltd. The latter company is now registered as Gordonia Packaging, Ltd. Its manager is Mr. R. A. Hardiman.

PULLIN OPTICAL CO., LTD., are moving their administration offices, warehouse and dispatch department to Ellis House, Aintree Road, Perivale, Greenford, Middlesex (telephone: Alperton 1541). The West End showroom remains at Electrin House, 93 New Cavendish Street, London, W.1.

TIMOTHY WHITES & TAYLORS, LTD., closed their branch at 4 Mumps, Oldham, Lancs, on November 26.—The company have opened a pharmaceutical department in a new store in Linthorpe Road, Middlesbrough. The company's other shops in Middlesbrough at 19 Linthorpe Road and Newport Road are to remain open.

Appointments

EVANS MEDICAL, LTD., Speke, Liverpool, have appointed Mr. C. E. Bate chemist representative for Cheshire, Shropshire, North Stafford and West Leicestershire.

HELENA PRODUCTS, LTD., have removed to Helena Building, 303 Chase Road, Old Southgate, London, N.14, and have appointed Mr. A. Kay their ales manager.

DEATHS

BIRD.—On November 20, Sir Robert Bland Bird, Bt., K.B.E., former chairman of Alfred Bird & Sons, Ltd., Birningham. Sir Robert, who was eightyour, was the eldest son of Sir Alfred Bird, who took over the management of the company following the death in 878 of the founder, Mr. Alfred Bird, hemist and druggist, who in 1837 pened a pharmacy in Bell Street, Birningham (see C. & D., June 27, 1936, 737).

DUIGENAN. — On November 9, Mr. Ernest Vincent Duigenan, M.P.S., 8 Manchester Road, Denton, Lancs. Mr. Duigenan qualified in 1922.

GRIFFITH.—On November 9, Mr. ohn Henry Griffiths, M.P.S.. The harmacy, Penryndeudraeth, Merionths. Mr. Griffiths qualified in 1921 nd was a past-chairman of the Merioeth Branch of the Pharmaceutical ociety and a member of the Merioneth harmaceutical Committee.

HOCKIN.—On October 20, Mr. rederic William Hockin, M.P.S., 7 letherleigh Mansions, Shrubbery oad, Weston-super-Mare, Somerset. Ir. Hockin qualified in 1909.

MILNE. — Recently, Mr. James lilne, M.P.S., 4 Woodhill Place, Abersen. Mr, Milne, who qualified in 1913, as head of the drug department of the orthern Co-operative Society, Ltd., om 1945 until he retired in 1953.

NEVARD. — On November 7, Mr. ouglas Albert Nevard, M.P.S., Greenst, Great Horkesley, Colchester, ssex. Mr. Nevard, who qualified in 113, was, until earlier this year in 1siness at the Scheregate Pharmacy, theregate Steps, Colchester, which he bened twenty-eight years ago.

PARKINSON.—On October 23, Mrs. neila Ann Caroline Parkinson, M.P.S., 23 Chignell Road, Chelmsford, Essex. rs. Parkinson qualified in 1957.

THOMAS.—On November 8, Mr. David Glyn Thomas, M.P.S., of S. C. Tudge (Chemists) Ltd., 104 High Street, Ware, Herts. Mr. Thomas qualified in 1925.

VAUGHAN.—Recently, Mr. David Emlyn Vaughan, M.P.S., The Pharmacy, Foryd Road, Towyn, Abergele. Mr. Vaughan qualified in 1930.

WILLIAMSON.—On October 25, Mr. Walter Williamson, M.P.S., of Messrs. R. & C. Nicolson, Midshore, Scalloway, Shetland Isles. Mr. Williamson qualified in 1940.

PERSONALITIES

MR. HERBERT H. PEATE, M.P.S., 18 Church Street, Ripley, Derbys, who as announced previously (C. & D., November 19, p. 634), is retiring on November 26, is a keen photographer, having been connected with the Northeast Midland Photographic Federation since its inception. For more than a year he has coached the Saw Mills Rangers in photography in connection with the Duke of Edinburgh's award. One of the rangers (Miss Eileen Spendlove) is the first in Derbyshire to be awarded the gold medal; she goes to Buckingham Palace to receive it on December 14.

DR. MADELINE OXFORD HOL-LAND, for more than twenty years associated with the editorship of the American Professional Pharmacist, is resigning as editor on December 30. An honours graduate in pharmacy of the Philadelphia College of Pharmacy and Science, Dr. Holland later earned the degrees of master and doctor of science from that institution. Serving there for a time as instructor in pharmacy and faculty adviser for women students, she also practised in professional pharmacy in suburban Philadelphia, She began her editorial activity in

June 1938, becoming contributing editor of the A.P.P. in November 1939; assistant editor in April 1941; managing editor in October 1941; and editor in July 1947. For several years she was scientific editor for the Spanish-language pharmaceutical journal El Farmaceutico. Dr. Holland intends to continue her work as a consultant in pharmaceutical, technical and marketing fields for industrial firms in the United States and overseas, as well as in editorial activities.

MR CLIFFORD PUGH, B.Sc., F.R.I.C., who has been appointed pro-

duct research manager of County Laboratories, Ltd., following the lowing the re-tirement of Dr. R. H. Marriott, ioined the Beecham group in 1954 as head of the research section assigned work Maclean toothpaste, and in the following became year



product manager. He occupied that post until October 1959 when he transferred to County Laboratories, Ltd. Before joining the group Mr. Pugh served with the Shell organisation on its research side and prior to that with Courtauld's textile research laboratories.

OVERSEAS VISITS

MR. S. R. WOODS (export manager, Smith & Nephew Pharmaceuticals, Ltd.) is currently visiting European countries to conclude marketing arrangements for a new range of ophthalmic products.

IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THERE were more than 1,400 million halfpennies in circulation MR. A. BARBER (Economic Secretary, Treasury) told MR. M. LIPTON on November 17, and the Chancellor of the Exchequer did not propose to abolish the coin.

Foot and Mouth Disease

At the Foot and Mouth Disease Research Centre, Pirbright, forty scientists and 158 supporting staff were studying the causes of foot and mouth disease. The cost of the research during the current financial year was about £300,000 excluding capital expenditure. That information was given by MR. C. SOAMES in a written reply to MR. EMRYS HUGHES on November 17.

Trade Returns

MR, H. WILSON asked the President of the Board of Trade if he would make a statement on the provisional October trade return figures. MR, R. MAUDLING, in a written reply on November 17, stated the returns were affected by the strike of tally clerks at the London docks. It was not known how big the effect was, but it was thought it was larger on exports than on imports. The distortion of the figures

would probably continue and make interpretation difficult for the next month or two.

Prizes to Pharmacists

MR. K. ROBINSON asked the Minister of Health on November 21 whether he was aware that drug manufacturers included in their manufacturing expenses such promotion expenses as Continental holidays offered as prizes to pharmacists; and to what extent he took into account such expenses in approving the costs of new drugs prescribed within the National Health Service.

MR. E. POWELL (Minister of Health) said "I am aware of one recent instance of this, but am told that the firm concerned does not intend to use this type of sales promotion in future. The costs of new drugs prescribed within the National Health Service are not subject to my approval." MR. ROBINSON: "Does not the Minister agree that this type of advertising, which was indulged in by Aspro-Nicholas in trying to introduce a new antibiotic, can only reflect adversely on the pharmaceutical industry as a whole? Will he do everything in his power, by persuasion, to see that it does not happen again?" MR. POWELL, "Yes."

TRADE NOTES

Hosiery Supply Service. — What is claimed to be the first specialised supply service for elastic hosiery is operated by Credenhill, Ltd., 49 Goodge Street, London, W.1.

Erythromycin at Less Cost.—Upjohn of England, Ltd., Fleming Way, Crawley, Sussex, announce a new schedule of reduced prices for erythromycin tablets, 100-mgm. and 250-mgm., in bottles of twenty-five, 100 and 500.

A Discontinued Strength.—Lederle Laboratories division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.1, announce that, from December 1, the 400-mgm. strength of Miltown capsules is being discontinued.

Full Production Soon. — A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3, express regret for inconvenience caused by delays in filling recent orders for Donnazyme. The great demand for the product was not





CATCHING THE CUSIOMER'S EYE; SAVING THE SELLER'S TIME: The current pack Energen rolls, besides being much more attractive to the potential customer, is sent out in an eopen onter of twenty-fonr, splitting into separate dozens for greater convenience in handling storage. Makers are Energen Foods, Ltd., London, N.W.10.

DRUG JARS IN THE HOME: The old blue "canopy" jars which formerly were manufactured for use in pharmacies, are now becoming popular for use as household storage containers or — in the bathroom — for storage of bath salts. Makers are Kirkhams, Ltd., Kirkham Street, London Road, Stoke-on-Trent.



sufficiently anticipated when it was first introduced to the home market. Production of Donnazyme will, however, be at full output from Novtmber 28. Customers are asked to show forbearance in the meantime.

bearance in the meantime.

No Longer Made. — Allen & Hanburys, Ltd., Bethnal Green, London,

E.2, have discontinued manufacturing the 2-oz. tins of Torch brand menthol and eucalyptus pastilles and Torch brand Gee's linctus pastilles. No further orders are being accepted.

Restyled.—André Philippe, Ltd., 71
Gowan Avenue, London, S.W.6, announce that their No. 8 Andre Philippe

lacquer, pink and blue assorted, available in a restyled pack in wh a push-on cap has been replaced b conical shape white screw-cap.

Not in the Advertisement.—E. G fiths Hughes, Ltd., P.O. Box 407, Ac phi, Salford, 3, Manchester, annou that an advertisement on another p giving details of advanced prices sho have included Tru-gel hair dressing, retail price of which is being increa on December 1 from 2s. 8d. to 2s. 1

A Change of Product.—E. R. Squ & Sons, Ltd., Edwards Lane, Sc Liverpool. 24, announce that stocks their product Mysteclin-V for syrup now exhausted. On December 1 it being replaced by Mysteclin-F syrup, details of which were given the C. & D., October 1, p. 403, toget with information on Mysteclin-F paediatric drops.

Duration of Effect of a Drug. Riker Laboratories, Ltd., Morley Str Loughborough, Leics, point out the duration of effect of each teaspoful dose of their speciality Pholtes such that in many cases it will not necessary to give more than two do (one teaspoonful night and morn





FRENCH LUXURY PERFUMES IN BRITAIN: Distributed in Britain by Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, the C range includes perfumes, talcum powders, face powders toilet waters and creams bearing such well established titles as Fleurs de Rocaille ("as a and gay as daintily charming rock carden flowers"), French Cancan ("a perfume as gay, as saucy and as light as the Parisian air"), Muguel Bonheur, Poivre, La Nuit de Noel and Tabac Blond. Others, it is understood, are shortly being added. The products are characterised by shapelines container, tastefulness of label design and meticulous finish of caps and cartons, as in the examples illustrated.

during the waking hours. The effect, nowever, of those two doses cannot be aid to last for twenty-four hours. In ome cases a third teaspoonful a day s necessary to provide round-the-clock

Selling Agents.—An arrangement has seen signed between Engelhard Hanvia Lamps, a branch of Engelhard Development Co., of Canada, Ltd., and he Alfloc Water Treatment Service of Industries, Ltd., whereby the latter will in future underake sales and technical service in Great Britain and Northern Ireland of Hanovia ultra-violet radiation equipment for the sterilisation of water.

First Introduction to Doctors.—Medical practitioners had their first ntroduction to Dilosyn, the new antistaminic speciality of The British Drug Houses, Ltd., Graham Street, ondon, N.1, at the London Medical Exhibition, November 14–18. By that riterion the product qualified for menion in this paper's review (C. & D., November 19, p. 630) of products aunched at that exhibition. Its omission from the survey was due, paraloxically enough, to the courtesy the nanufacturers had shown to pharmaists in letting them have information bout the new product before the docors were told about it (details were ublished in the C. & D., October 29, 528). That Messrs, B.D.H. should e, as it were, penalised for so comendable a gesture is regretted. Reewed attention is therefore drawn to Dilosyn, the features of which are its igh antihistaminic and exceptional ntipruritic properties, which are rade available for adults in 8-mgm. ompression-coated tablets, and for hildren as a peach-flavoured syrup.

Bonus Offers

PHILLIPS, SCOTT & TURNER, LTD., urbiton, Surrey. Dramal. Twelve inoiced as ten. Introductory offer.



TOOK THE STRAIN: Mr. W. A. Lawless, mance, who drives a 9-ton hydraulic shovel, cently reversed it — accidentally — over his versack, which contained a Vacco vacuum sk, As will be seen, the protective metal confor stood the strain. Even the glass vacuum ttle inside remained undamaged. Mr. Lawless ntinued to use the flask until he decided that e manufacturers might be interested; now he 5 a new Vacco flask.

VFORMATION WANTED

Editor would appreciate information about:

Asphosyl cream Perma-Strate

NEW PRODUCTS AND PACKS

Balanced Food Concentrate. — For overweight customers Phillips, Scott & Turner, Surbiton, Surrey, offer a new diet food, Dramal, claimed to reduce weight "by up to ½ lb. a day." Dramal is a "balanced food concentrate" (low calorie: high protein) presented as a powder containing all the minerals, vitamins and protein needed for nutrition. The pack is an 8-oz. tin.

speciality, Sustacol (sustained action) homatropine methylbromide combined with phenobarbitone, for the treatment of gastrointestinal spasm. The manufacturers point out that homatropine nichtylbromide is more effective than atropine in inhibiting gastrointestinal motility and that its ganglion-blocking action is more definite. Homatropine methylbromide also has the advantage of





FOR HANDINESS IN HOSPITAL: Each pistol-grip applicator for operating the pressurised container for Rikospray benzocaine and Rikospray silicone is issued, for the convenience of those called upon to use them in hospitals, in an outer containing three 6-oz. canisters of the variety of aerosol ordered.

A Hospital Pack. — Riker Laboratories, Ltd., Morley Street, Loughborough, Leics, have introduced hospital packs of Rikospray silicone and Rikospray benzocaine. Each pack consists of three by 6-oz. canisters. Enclosed with them is a "pistol-grip" applicator for convenient operation of the aerosol release valve. Rikospray hospital packs are obtainable on direct orders only and orders from hospitals should be endorsed "hospital pack" in order to make sure of a free supply of applicators.

A Sterile Cord Powder.—For the control of staphylococcal infection and cross infection in maternity units, Clay & Abraham (Mnfg.), Ltd., 2 Upper Duke Street, Liverpool, 1, have made available, in addition to their standard pack of cord powder, B.P.C., a similar product to which 0'3 per cent. of hexachlorophane has been added and which is being marketed under the name Cordocel. The individual envelopes are sterilised after filling, remaining sterile until used. Each pack contains six envelopes.

Homatropine with Phenobarbitone.— Pharmax, Ltd., Western House, Gravel Hill, Bexleyheath, Kent, are introducing to the medical profession a new being less toxic than atropine. Its action in Sustacol is understood to be enhanced by the presence of phenobarbitone. The tablets embody the company's new controlled-release process, so that one tablet can provide a constant therapeutic blood level of its ingredients for a period of 8 to 10 hours after ingestion. A single Sustacol tablet morning and night thus affords effective day-and-night relief from gastrointestinal spasm.

Gardening Products.—Reckitt & Sons, Ltd., Hull, are marketing a range of horticultural preparations, including Thrive general-purpose fertiliser in containers of 1 lb., 2 lb., 7 lb., 14 lb., 28 lb. and 56 lb.; Spurt liquid feed; Clean Leaf insecticide; and Clean Lawn selective weed-killer.

Swim Caps for 1961.—Sixteen new swim caps have been added to the range of I. B. Kleinert Rubber Co., Ltd., 91 New Bond Street, London, W.I, for the 1961 season. The company had "an unprecedented sale" of their caps at home and overseas this year and are forecasting increased sales for next year. All the company's caps are inade by an exclusive process that eliminates hair "drag" when fitting or removing the cap. Three new colours are used in the new range.







Three swim caps from the 1961 range of I. B. Kleinert Rubber Co., Ltd. At left, "Honolulu" (available in five colours), at centre, "Sprite" (six colours), at right, "Daisy Band" (plain white cap with black bandeau trimmed with multi-colour "daisies").

MANUFACTURERS' ACTIVITIES

Cyclone Relief .- As a contribution to the East Pakistan cyclone relief fund, May & Baker, Ltd., have donated 50,000 each of their Nivembin and Thalazole tablets. The tablets have been sent to the High Commissioner for Pakistan in London for transmission to Pakistan.

Twenty-five Years' Service Honoured. —Mr. Robert Geddes, education and sales training officer of CIBA Laboratories, Ltd., Horsham, Sussex, was presented with a gold wristwatch by the company's managing director (Mr. Philip Mair), when he completed twenty-five years' service with the company on November 8. Mr. Geddes joined the company as a medical representative in 1935, and after the war was made area supervisor in charge of the field force in the southern half of England. A year ago he received his present appointment, in which he is responsible for the continual education and sales training of representatives.

should reach the organisers on or before December 24, in envelopes marked "Photographic Competition" and addressed to Miss P. M. Elton at the company's address.

Publicity for Perfumes .-- Founded in September 1950 by a group of manufacturers and distributors of perfumes and perfumery products, the Fragrance Bureau recently celebrated its tenth birthday. In founding it they believed that there was a large potential of ex-tended trade for such products in Britain, if only British women could be made more perfume-conscious. The marked increase in sales since the Bureau was founded would seem to bear out the faith of the founders. It was decided that, in order to reach the public, both directly and indirectly, organs of the women's Press and of the trade Press should be approached

LONG SERVICE AWARD: Mr, Dixon (second from right), an employee of Glaxo Laboratories, Ltd., Greenford, Middlesex, with the watch recently presented to him by Sir Harry Jephcott

(centre), chairman of Glaxo Laboratories, Ltd., in the presence of Dr. F. J. Wilkins (deputy managing director), Mr. E. Preston (a director) and Mr. H. W. Palmer (managing direcfor of the company).



A Photographic Competition. — A photographic competition open to users of Elgastat deionisers has been organised by Elga Products, Ltd., Lane End, Bucks, The theme is "The Elgasta In Action." The competition is open to amateur photographers only. Entries should be black and white glossy prints, size $8\frac{1}{2} \times 6\frac{1}{2}$ in., with descriptive caption. The Elgastat should be shown in use, and entries will be judged on their power to convey the theme. The first prize is £30 and a challenge cup. Other prizes are £25, £20, £15 and £10, with five merit awards of £5 each. Entries

to publish articles and paragraphs on subjects pertaining to perfumes. Regular material was provided, and if not all of it was used, nevertheless the sales curve rose. The Bureau recently moved to spacious new headquarters at 7 York House, Upper Montagu Street London, W.1.

Industrial Safety Poster Awards.-The final judging in the annual safety poster competition, held by the Distillers Co., Ltd., took place in London recently, when three entries were chosen for reproduction and use throughout the company during 1961. After pre-



EXECUTIVES CONFER: Exports were one the items discussed by Mr. Stuart K. Hens (president of the Toni Company of the Unit borough factory, from which products are d States) (standing) on his visit to the Far patched to 127 export markets. In conferent with him are (from right) Mr. John Pet (director and general manager of Toni Cosmeti division of Gitlette Industries, Ltd.), Mr. Har Reddaway (factory manager) and Mr. Malco Ashworth (marketing manager).

liminary judging at regional centres the final selection was made from fort two local prize-winners by a pan headed by Sir George Barnett (co sultant to the company on safe matters) assisted by representatives the D.C.L. central personnel, safet productivity and publicity department. The prize-winners were:—Mr. T. Dun The prize-winners were:—Mr. T. Dun D.C.L. chemical division, Carshalte (£20); Mr. S. G. Jones, British Res Products, Ltd., Barry, Glam (£10); ar Mr. A. Gallagher, Distillers Co. (Biochemical), Ltd. Spake, Liversed (£10). chemicals), Ltd., Speke, Liverpool (£5



A MYSTERY SHOPPER CALLS: Outcome a visit from the Remington "Mystery Shopper to the pharmacy of Maurice Kane, Ltd., Bur Oak Broadway, Edgware, Middlesex, was t handing over to the company's managing direct of a £5 prize cheque, "Mystery Shoppers" ha been calling on stockists of Remington razo during November, If the stockist recommends Remington, and uses the phrase "Roller Com for Closeness and Big Head for Speed" given £5 cash immediately.





RETAILER'S STAFF OUTING: The staff of the High Wycom's pharmacies of J. M. Hughes (Seymour (Chemists), Ltd.) visited Glaxo Laboratoric Ltd., Greenford, Middlesex, on November 9. During the tour they were shown the streptomycin filling hall, tablet manufacturing, ampoule filling, pharmaceutical packing, and (at left) Farex manufacture and food packing. At right, the party are seen on arrival at Greenford.

MEDICAL RESEARCH DURING 1959

Chief Medical Officer's review of drugs and illnesses

DURING 1959, "development and project research with a medical objective in view has been continued with even greater vigour, chiefly at the nitiative of the pharmaceutical industry," states Sir John Charles (Chief Medical Officer, Ministry of Health) n his annual report for 1959 (H.M. stationery Office, price 13s.).

Recent Achievements

Sir John refers to the isolation of he essential nucleus of the penicillin nolecule and the discovery of griseoulvin, and to spironolactone. The pronotion of pharmaceuticals for treating lisorders of the mind, he states, pro-eeded with undiminished vigour, and number of new drugs were offered or that purpose. Often, however, righly encouraging accounts were assoiated with improperly controlled trials. or even with uncritical clinical studies. t was imperative that therapeutic trials hould be impeccably designed and the indings examined with objective de-achment. The detection, too, of side ffects and toxic reactions must never e neglected if treatment might need o be continued indefinitely.

On the work of the standing joint ommittee on the classification of proprietary preparations, the report states hat, of 4,615 proprietary preparations urrently available, ninety-two were in ategory N, 3,815 came within category S, six in category P, 240 in category O, 462 in category H. Thus ractitioners were discouraged from rescribing 15 per cent, of the preparations classified by the committee as containing drugs of questionable theraeutic value. On the setting up of a vorking party to consider the legislation and the control of medicines, "It emains to be seen whether any changes hat are proposed for altering the preent legislation should be confined to implification, and be aimed at adminstrative convenience, or whether more undamental alterations are desirable."

The trend away from communicable owards degenerative diseases and neolastic conditions continued during 959. Deaths from all forms of tuberulosis continued to fall, and no death was attributed to diphtheria. Deaths ssigned to syphilis fell below 1,000 or the first time, but deaths from ancer of the lung continued to inrease in numbers, and coronary disase took a greater toll of life than in 958.

The availability of influenza virus accines on a commercial scale gave ise to many inquiries concerning the afety and efficacy of the vaccines. The roublesome reactions associated with ome of the earlier preparations had een obviated by improved methods of reparation, and the administration of nactivated influenza virus vaccines roduced by modern techniques could be regarded as a reasonably safe proedure. The small amounts of egg or hicken protein present in the finished roduct constituted a risk to persons ensitive to those substances, and the

desirability of vaccinating allergic subjects needed careful consideration. Some influenza vaccines incorporated aluminium phosphate as an adjuvant. That was open to objection, since the use of other alum-containing prophylactics had been shown to carry an enhanced risk of provoking paralysis in cases of poliomyelitis infection. No such adverse effect had been recorded from influenza vaccine, but it might occur. On the relative merits of monovalent, bivalent and polyvalent influenza vaccines there was some diversity of expert opinion but, for practical purposes, a bivalent vaccine prepared from recent epidemic variants of influenza viruses A and B was considered to be a reasonable compromise. How best to use the influenza vaccines at present available was still uncertain.

In elucidating the rheumatic diseases little had been achieved. In the control of infection in hospitals, the rapid emergence of drug-resistant strains of organisms had demonstrated that asepsis must continue to be the basis

of control. Demand for blood on the National Blood Transfusion Service continued to increase; fortunately the number of donors had kept pace with the demand, but the time had come for surgeons to ask themselves in any particular case: "Is blood transfusion really necessary?" They should seek other means of treatment if the answer was in the negative.

A Need

The discovery of an anticoagulant solution that could be used for preparing blood for the heart-lung machine as well as for normal storage would be a great convenience. Recent work in the United States of America inspired the hope that such a solution might soon be available.

Research was being undertaken under the supervision of the Agricultural Research Council to find a suitable marker substance, easily detectable in milk, to incorporate in antibiotic preparations when issued for veterinary use

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Up to Strength Once More

SIR,—As you recently focused attention on the inadequate pharmaceutical services on the Isle of Dogs in the borough of Poplar (see C. & D., August 20, p. 210), you will be pleased to know that a chemist contractor has opened premises on the Island and commenced business on October 6. May I express the thanks of the Council for the help that your journal gave in this matter.

L. P. WILLIS.
Clerk, London Executive Council
[A photograph of the new pharmacy is reproduced on p. 661.—ED.]

Economics of Containers

SIR,—It is clear from the recent address to members of the Pharmaceutical Society in London on "Paperboard Containers for Dispensed Tablets (C. & D., November 5, p. 576) that, within the limits of the Ministry's miserly container allowance, chemists cannot provide efficient containers for many of the medicines they send out. Packaging has made great strides in recent years, and entirely suitable containers are available for all retail dispensing. but at a price the chemist cannot afford out of the allowance! Clearly that should be increased. Its amount should be governed not by the cost of the cheap and inferior cartons, etc., contractors are at present compelled to use, but by what they aught to be using. Chemists have a number of claims on the Ministry—for more adequate dispensing fees, for a higher oncost allowance, etc.; they perhaps feel that a halfpenny or so on the container allowance might well be foregone to secure a greater concession on more "important" items. That would, I feel, be a mistake. The manner in which a chemist sends out his medicines reflects on the credit of pharmacy. That, too, has a bearing on the welfare of patients, since medicines, not infrequently suffer deterioration through inadequate containers. The claim for an increase in the allowance should stand on its own merits, and not be compromised for other claims.

F. F. MARCHBANK, Horsham, Sussex

Nominations for Council

SIR,—The committee of the London County Pharmaceutical Association have been considering the difficulty that ordinary members have, through lack of information, in deciding the merits or otherwise of Council candidates. New candidates suffer most from this. Under the present by-laws the counting of votes takes place six weeks after the names of the candidates have been published in practice leaving a much shorter period for learning about candidates. The short biographies and official addresses that are published often leave many questions unanswered. Those questions may often be resolved by holding candidates' meetings or by branch secretaries sending out questionnaires to candidates and reporting back to members. To organise those services requires more time than is available under present arrangements and my committee feel that nomination should close one month earlier, and that the list of the candidates should be issued after the March meeting of Council. They would be interested to know if there are others who hold similar views.

H. L. CROSSLEY, Secretary, 61 Beulah Road, London, E.17

PRIZE-GIVING AT SUNDERLAND

Expansion plans for the department of pharmacy

FEATURES of this year's prize-giving at the pharmacy department, Sunder-land Technical College, on November 9, were an address by Professor W. H. Linnell and an announcement by the head (Mr. F. H. Oliver) of plans to expand the department. Mr. Oliver referred to the rapidly expanding research programme undertaken by the department and paid tribute to the progressive outlook of the governors and of the local education committee. Examination results were "highly satisfactory," he said especially in the B.Pharm course.

Professor Linnell (dean of the School of Pharmacy, University of London), who was also to present the prizes, addressed the meeting on "Behind the Iron Curtain." The professor had been a member of an official delegation to Moscow and Leningrad, Prague and Cracow in 1959; and in October had taken part in a two weeks' visit to the Universities of Belgrade and Zagreb, Jugo-Slavia, Giving an account of education in those coun-

tries, he spoke of his concern at the tremendous advances being made by the Soviet Union and her satellites. The number of undergraduate places per head of population was far greater than in Britain. In Jugo-Slavia there were 125,000 places for a 12-million population; in Britain there were 90,000 places for 56-million population. The Soviet Union was now training five times as many scientists and engineers as the whole of the rest of Europe. Far more money was available for education and the teaching profession was among the most respected, desirable and remunerative, attracting the best brains in the country.

Nevertheless, education was under severe handicaps in the Soviet Union. Although the undergraduate courses were usually six to seven years in length, considerable time was spent in Communist indoctrination, to the students' disadvantage. Also the totalitarian regime drafted its undergraduates and graduates into whatever field it thought fit. The result was that, though outstanding advances might be made one field, others were neglected. pharmacy, sterilisation techniques we not taught to undergraduates. Resear and teaching were not combined in the universities, which had become a vanced schools rather than universiti in the Western sense.

Britain's only remaining material, he concluded, was its you and the potential it offered. If that w not realised, then the United Kingdo would become not only a second-ra power but an insignificant one.

Prize List

First Year Final Courses: Boo PRIZE, M. H. Collinson, TIMOTI WHITES' & TAYLORS PRIZE, T. Colpitt; ABBOTT LABORATORIES PRIZ Ann G. Harding; BLEASDALE PRIZ I. A. Irving; SUNDERLAND BRANC PHARMACEUTICAL SOCIETY PRIZE, M. Collinson; Evans Medical Prize, R.
Hall, Mawson & Proctor Priz
Audrey Greenwood; Newcastle at NORTHUMBERLAND BRANCH, PHARMACE TICAL SOCIETY, PRIZE, W. Gibbon; SU DERLAND BRANCH, B.P.S.A., CHAIRMAN (1953–54) PRIZE, C. W. Roberts; DU HAM COUNTY BRANCH, PHARMACEUTIC Society, Prize, Audrey Greenwood

Second Year Courses: TIMOTI WHITES' & TAYLORS PRIZE, W. Breit aupt; Tees-side Branch, Pharmace aupt: Tees-side Branch, Pharmace Tical Society, Prize, Kathleen Mashall; Pfizer Prize, A. Heat Abbott Laboratories Prize, (Stebbins; Hall, Forster Prize, Clayton; W. R. Clements Prize, J. M. Goldie; G. P. Farman Prize, J. Man Goldie; G. P. Fairman frize, J. Mail Wilkinson & Simpson Prize, Lyn M. Ferguson; Sydney A. Gamli Prize, Diana Edwards; T. D. Whitt Prize, June D. Bloor; J. C. Penm. Memorial Prize, J. M. Goldie.

Third Year Final Course: TIMOTI WHITES' & TAYLORS PRIZE, J. Hurst. General: Sunderland Brand N.P.U., Prize, Diana K. Ellis; T. CHEMIST AND DRUGGIST PRIZE, R. J. BRANC

A PHARMACY ENLARGED AND IMPROVED How a problem of levels was dealt with

THE Broadway, Southend - on - Sea, pharmacy of Bodies Pharmacies, Ltd., recently underwent structural alterations that not only added greatly to the floor area but lent a new distinction to the premises. Formerly the dispensing department was behind a screen at approximately the point at which the floor level changes in the picture. Behind the original dispensary was a warehouse and stockroom. All that space has been thrown into the shop, and the change of levels, which could easily have presented difficulties, has been converted into an attractive architectural feature: an "S" curve of three shallow steps. The front part of the shop is now given over principally to cosmetics and toilet prepara-tions. Along most of the right-hand wall of the rear portion is a handsomely appointed dispensary, at whose threshold customers present their prescriptions to a receptionist at a special counter-cum-desk. Facing the dispensary along the other wall are the drug and proprietary medicines counter and an opening into a fancy goods department beyond the wall. The staircase seen in the picture leads to an ancillary department (including optical and surgical fitting rooms as well as a newly created ladies' hairdressing salon)



The whole of the portion behind the three steps has been added to the "front shop" area of the Broadway, Southend-on-Sea, pharmacy of Bodies Pharmacies, Ltd.

BRANCH EVENTS

PLYMOUTH

Trends in Modern Medicine

BEFORE he addressed the Plymou Branch of the Pharmaceutical Society recently on "Trends in Modern Me cine" MR. A. R. G. CHAMINGS (a mei ber of Council) gave a brief account council work and the actual wo undertaken by the individual membe He then spoke of the great change which had taken place during the present century in the treatment of disease Fifty years ago little was known abo the chemistry of the human body ar still less about the way in which t drugs then in use acted. Today creased knowledge of the chemic changes which took place in diseas conditions enabled them to be pricisely dealt with by medicinal sustances which had been "tailored" f the purpose. It was now known the mental and nervous disorders were result of chemical action taking pla within the brain and that diseases such as coronary thrombosis and oth arterial diseases could to a remarkab extent be alleviated by means of drug



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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"
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Sound Science and Good Advice

THE report of the scientific branch of the Public Health Department of the London County Council (see p. 661) covers a wide range of activities from drinking water to trade effluents and from building materials to airtunnel investigations. It is well worth reading for many reasons, but what principally excites our approving comment is the approach shown to his problems by the Council's Scientific Adviser (Dr. S. G. Burgess), as revealed in an introduction to the report. Dealing with the prices at which goods are bought by the Council he says that the statement "We use X because the tender for it was the lowest," may point to an uneconomic process, because the cheapest article may be the most expensive in use. . . . There should be a valid reason why any particular material is purchased. The reason that X has given satisfaction is not enough. The user may not have tried anything better and may even be unskilled in the assessment of the product. Indeed 'satisfaction' may be due to the skill of advertising. . . ." Dr. Burgess's insistence that the price of an article is not the only cost factor to be considered holds good elsewhere—it applies to the social services, for example, where it is essential that "costing" should take into account the whole range of cost and benefits. To apply that rule demands scientific advisers of the stamp of Dr. Burgess, and unfortunately there are only too few of his calibre in the employ of local authorities -too few at least bearing the label "Scientific Adviser."

However, we believe that, in the field of pharmacy, many perform that function without being given the recognition of the title. In the hospital services especially the pharmacist is a "natural" as a scientific adviser on the use and purchase of drugs and dressings. He is possibly the only individual with the broadly based academic training, statutorily necessary, to enable him to make the necessary detached evaluation of the many items that pass through his hands. The hospital pharmacist has, in fact, a key role in the application of scientific theory to practical uses. Like the Scientific Adviser to the L.C.C., he can—and in many hospitals does—ensure that the evaluation of costs is an objective one in which price is not the sole criterion. If hospital pharmacists yield to pressure by supplies officers or purchasing committees, then the raw materials for their daily duties may be debased in quality and their professional outlook may become blurred. That is not to the advantage of the patient and even the apparent saving to the hospital authority is illusory. The well

reasoned and courageously expressed arguments of the L.C.C.'s scientific adviser should encourage a firm stand against mere cheapness.

Onward from Galen

Most of us remember what ipecacuanha root looks like from our student days and those who qualified in recent years may easily recognise rauwolfia root, but how many could distinguish the plants from which they are taken? Anyone visiting the Royal Botanic Gardens, Kew, before December 6 will find these plants, together with a number of other tropical and subtropical plants of medicinal importance brought together in an exhibition as Kew's contribution to the current series of events drawing attention to the Commonwealth. There are two Rauwolfia serpentina plants actually in flower and a plant of Gossypium barbadense with the cotton wool ready for plucking. Other live plants, besides the Cephaelis ipecacuanha already mentioned, include the coffee plant, the coco-nut palm, Theobroma cacao, and the banana tree. Kew's big part in introducing the various cinchona species into India about 100 years ago is recalled by means of a dried mounted specimen of Cinchona officinalis and there are illustrations of the type of packaging used for transporting plants in those days as well as of the boats in service. Kew still sends many different specimens abroad. By contrast, the modern packaging small plants are packed in moss which is then wrapped in polythene and brown paper to make a light parcel—is as simple as the transport is quick, for the plants, of course, now go by air. Among the plants dispatched this year to the Commonwealth have been improved varieties of cacao for West Africa, a good variety of cinnamon for Seychelles and an improved banana for India and West Africa. The exhibition, which is open 1 to 4 p.m. in the Wood museum, really only scratches the surface of what is, to a pharmacist, a fascinating subject. There are many other plants one would have liked to see—as, for example, the Kenya pyrethrum, the Zanzibar clove, species of aloe and some of the essential-oil-bearing plants. To the enthusiast, however, this exhibition may well serve to what the appetite and lead him to search elsewhere in the gardens for the remainder.

ECHOES OF THE PAST COLD BATHING

From "Primitive Physick: or, an Easy and Natural Method of Curing Most Diseases" by John Wesley. London, 1772

Cures Young Children of Convulsions, Coughs, Cutaneous Inflammations. Pimples and Scabs, Gravel, Inflammations of the Ears, Navel and Mouth, Rickets, Suppreffion of Urine, Vomiting, Want of Sleep. It prevents the Growth of Hereditary Apoplexies, Afthma's, Blindnefs, Confumptions. Deafnefs, Deliria, Gout, King's Evil, Melancholy, Palfies, Rheumatifm, Stone. It frequently cures every Nervous. and ‡ every Paralytic Diforder: In particular, The Afthma, Ague of every Sort, Atrophy, Blindnefs,* Cancer, Chin-cough, Coagulated Blood after Bruifes, Confumption, Convulfions, Coughs. Complication of Diftempers, Convulfive Pains.* Deafnefs,* Dropfy, Epilepfy, Violent Fevers, Gout (running), Hectic Fevers. Hemicrania, Hyfteric Pains,* Incubus. Inflammations,* Involuntary Stool, or Urine,* Lamenefs, (Old) Leprofy, Lethargy, Lofs of Appetite, of *Smell. *Speech, *Tafte, Nephritic Pains, Palpitation of the Heart, Pain in the Back, Joints, *Stomach, Rheumatifms, Rupture, Suffocations, Sciatica.* Surfeits (at the Beginning). Scorbutic Pains,* Swelling on the Joints, Stone in the Kidneys, Torpor of the Limbs, even when the Ufe of them is loft, Tetanus, Tympany, Vertigo, St. Vitus's Dance, Vigilia, Varicous Ulcers, The Whites. But in all Cafes where the Nerves are obfiructed (fuch as are thofe marked thus*) you fhould go to Bed immediately after, and fweat. 'Tis often ufeful to ufe the Hot Bath a few Days, before you ufe the Cold. Wife Parents fhould dip their Children in cold Water every Morning.

\$\frac{1}{2}\$ And this, I apprehend, accounts for its frequently curing the Bite of

‡ And this, I apprehend, accounts for its frequently curing the Bite of 2 mad Dog; efpecially if it be repeated for twenty-five or hirty Days fucceffively. Note: In the setting of the paragraph an "f" has been used as the nearest modern equivalent of the archaic form of the "s."—EDITOR.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

MOTION that the names of those members, associates and students of the Pharmaceutical Society of Northern Ireland who have not paid the retention fee for the current year should be removed from the appropriate register as and from December 12, was unanimously adopted at a meeting of the Society's Council, held in Belfast on November 17. Notice of the motion was given by Mr. J. Gordon, seconded by Mr. H. G. Campbell, Mr. GORDON said he trusted that the usual precaution would be taken to safeguard those who had omitted to pay the fee by oversight.

Examiners Appointed

THE SECRETARY (Mr. W. Gorman) reported that two of the examiners appointed in January were unable to act. They were Mr. C. W. Young (who died in May) and Dr. Roddie, who was at present in the United States, Mr. Gorman said he had written to the Ministry of Home Affairs seeking approval of the appointment of Mr. W. Woodside, B.Sc.(Pharm.), and Dr. W. E. Glover, M.B., B.Ch., as examiners in the December Part II examination. The Ministry had approved the appointments, Mr. Gorman also reported that Mr. J. C. Acheson had written to say he would be willing to act on the Statutory Committee.

The Council approved an application from Miss Cecilia Patricia Dobbin (now Mrs. Ellam), Australia, for restoration of her name to the register. It was her intention to apply for registration as a pharmaceutical chemist to the Pharmacy Board of New South Wales. The Council agreed to a request from Mr. W. B. Rankin, LL.B., the Society's solicitor, that his annual retaining fee should be reduced from £50 to £10 10s, because his services had rarely been called upon by the Society.

Accounts totalling £267 14s, 10d, were passed for payment. In reply to Mr. H. Boyd, the secretary reported that the C. W. Young Fund was now in the region of £1,350, but donations had fallen considerably in number. The committee intended to hold another meeting in an effort to increase the flow of donations and come nearer the target of £5,000.

It was decided to hold the next meeting of the Council on December 8.

The president (Mr. A. Templeton) was in the chair and also present were Drs. R. G. R. Bacon and H. J. Cronhelm and Messrs. W. P. Ewart, H. G. Campbell, J. Gordon, R. M. Watson, W. C. Tate, W. J. Thornton, D. Moore, W. H. Boyd, H. W. Gamble, W. T. Hunter. J. Kerr, G. E. McIlhagger, S. E. Campbell. Apologies were received from Messrs. J. Caldwell (who was in hospital and to whom the Council sent its best wishes), W. H. Hall, F. R. Moore, H. F. Moore and Professor O. L. Wade,

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

(Concluded from the C. & D., November 19, p. 638)

The registrar reported on the death of Mr. Francis

Edward Holly, M.P.S.I.

The following were elected to membership:—Miss D. Tobin; Messrs. J. Kennedy; R. McLoughlin; T. Lyons. The following were nominated for membership:—Messrs. Patrick Browne, Sir Patrick Dun's Hospital, Dublin; Olaf G. Costello, Green Street, Callan, co. Kilkenny; Miss K. Kennedy. 5 St. Enda's Drive, Rathfarnham, co. Dublin; Mrs. M. O'Brien, The Medical Hall, Artane, co. Dublin; Mr. Thomas Fahcy, Main Street, Loughrea, co. Galway; Miss Annie Cryan, Sligo; Dr. J. G. O'Driscoll, Ballymore Eustace, co. Kildare, and Dr. R. O. Oshodi, Lagos, Nigeria.

Mr. W. V. Walsh, Market Street, Mountmellick, was nominated as an associate druggist.

The following changes of address were noted:—Mrs. M. O'Brien, M.P.S.I., to Kilmore Road, Artane, Dublin; Miss K. Leamy, L.P.S.I., to St. Brendan's, Wilton Lawn, Cork; Miss K. Kennedy, M.P.S.I., to 5 St. Enda's Drive, Rathfarnham; Mr. T. Cosgrove, M.P.S.I., to 34 Kinvara Drive, Navan Road, Dublin; Mr. O. G. Costelloe, M.P.S.I., to Green Street, Callan, co. Kilkenny; Mr. E. F. Harrington, M.P.S.I., to Coachford. co. Cork; Mr. P. J. Lemasney, M.P.S.I., to "Aisling." Firgrove Estate, Curraheen Road, Bishopstown, co. Cork; Mr. John MacEvilly, M.P.S.I., to 35 Oliver Plunkett Street, Mullingar; Dr. D. C. McAlister, M.P.S.I., to Tower Hill Hospital, Omagh; Mr. P. S. O'Briain, M.P.S.I., to Kilmore Road, Artane, Dublin; Mr. M. Sharkey, M.P.S.I., to Bus Aras, Store Street, Dublin.

An L.A.H. certificate having been submitted, it was agreed that the name of Dr. R. O. Oshodi should be entered on

the register of Pharmaceutical Chemists.

It was agreed that the following should be placed (a) on the Pharmaceutical Chemists' Preliminary Register: Mary T. O'Donoghue; Y. I. Desai; Marriam Coovadia; J. A. Boles; C. K. Shah, D. N. Shah, Y. Sardiwalla, D. A. Boles; (b) on the Pharmaceutical Assistants' Preliminary Register: J. White; Mary P. Rabette; Elizabeth A. O'Gorman; G. J. A. Mansfield; Brigid A. Byrne; Annie T. Collins, Edward C. Crowley.

A marriage certificate having been submitted, the name of Mrs, Catherine Ann Phelan (née Hogan), L.P.S.I., was

changed in the registers.

Apologies for absence were received from Miss L. Cunniffe, Mr. V. G. McElwee (who is recuperating after an illness), Mr. F. J. Robinson, and Mr. K. Banks, Present were Mr. F. Loughman, T.D. (president), Messrs. G. C. O'Neill, M. Costello, M. L. Cashman, C. J. Cremen, J. Gleeson, D. J. Kennelly, T. R. Miller, J. P. O'Donnell, J. J. O'Regan, T. B. O'Sullivan, M. Power, R. J. Power, R. J. Semple.

At a meeting of the Benevolent Fund which followed, grants totalling £79 were passed for payment. On the motion of MR. Costello, seconded by MR. Gleeson it was agreed that the Society should purchase £1,000 worth of exchequer stocks for the Fund.

MEDICAL ABSTRACT

EVALUATION OF SKIN ANTISEPTICS

"DISINFECTION of the skin of operation sites" is the title of a report by Lowbury, Lilly and Bull (Brit. med. J., 1960. II. 1039). They describe tests on eight antiseptics: ethyl alcohol (70 per cent.); Lugol's solution (diluted to contain 1 per cent. of iodine); a cationic iodophor (0.2 per cent. of available iodine); chlorhexidine diacetate (0.5 per cent.) in water; chlorhexidine digluconate (0.5 per cent.) in 70 per cent. ethyl alcohol; iodine (1 per cent.) in 70 per cent. ethyl alcohol; phenylmercuric dinaphthyl methane disulphonate (0.1 per cent.) in water; and cetrimide (1 and 2 per cent.) in water. Two methods of bacteriological sampling were employed. loyed. The first determined bactericidal activity against transient" skin flora by applying test organisms (staphylococci) to areas of skin, which were then exposed to one or other of the antiseptics. After two minutes' antiseptic action no live organisms were found in areas treated with the first three mentioned preparations, Appreciable numbers survived after treatment with the last two preparations which, however, were shown to possess strong bacteriostatic (as opposed to bactericidal) activity. In the second experiment, the first six preparations were tested for action against ' dent" (deeper lying) skin flora by a hand-washing technique: samples of washings were taken before and after two minutes' application of antiseptic to the hands. Alcoholic iodine and alcoholic chlorhexidine proved the most efficient, but in neither case did the reduction in viable bacterial count exceed 80 per cent. The authors add that chlorhexidine is to be preferred to alcoholic iodine in routine skin disinfection since it does not appear to give rise to sensitivity reactions.

IODINE WITHOUT THE STING

How and why the iodophors were created

ODINE has long been recognised as possessing a high degree of antiseptic activity. Its effect is rapid and non-selective—vegetative bacteria, spores, viruses and fungi are equally susceptible to solutions of sufficient concentration.

Simple solutions of iodine have, however, certain inherent disadvantages and, in consequence, the extent of their application has been limited. The classical iodine formulations are irritating to tissues, causing severe pain when applied to open wounds; they are corrosive to some metals, stain many fabrics and are liable to lose most of their antiseptic properties on evaporation of the solvent. Moreover, cases of acute iodine-sensitivity are unfortunately not rare.

With those drawbacks in mind research workers in the United States tried, a little over a decade ago, to formulate a preparation of iodine that would be more acceptable while retaining the characteristic range of antiseptic potency of the original substance. The investigations bore fruit when, in 1949, Shelanski discovered that polyvinyl pyrrolidone and certain related surface-active agents solubilised iodine to form highly active complexes free from the unpleasant effects mentioned. Such complexes he termed "iodophors" (Greek phoros, bearer).

Today, iodophors (more commonly known as "tamcd iodine" compounds, a registered trade mark in the United States) have replaced other antiseptics in several American hospitals, schools and industrial plants for such routine purposes as instrument disinfection, sterilisation of food and beverage utensils, and for swabbing walls, floors, ceilings and equipment to maintain a high standard of sanitary conditions. A range of iodophor preparations* is currently being introduced into this country for those purposes, and some results of recent independent microbiological trials are given below. In addition, a veterinary iodophor preparation† has been found of use in the treatment of footrot and ringworm and for sterilising injection sites.

Mechanism of Action

The superiority of the iodophor over simple iodine solutions may be gauged by considering the physicochemical reactions that occur when iodine is solubilised.

Elemental iodine has a low solubility (1 in 3,000) in water.

It rapidly hydrolyses:—

 $I_2 + H_2O \rightleftharpoons HIO + H^+ + I'$ The iodide ion [I'] solubilises any further iodine to form ions of tri-iodide [I₂']. If a further source of iodide ions is made available by adding an alkali iodide, more iodine is dissolved, resulting in the formation of a larger amount of tri-iodide. Microbiological tests have shown that the antiseptic activity of iodine solutions is directly proportional to the concentration of free iodine present (and to a small extent due to the formation of relatively unstable hydriodic acid during hydrolysis); poly-iodide ions have in comparison

little antimicrobial action.

Evaporation of solvent leads to deposition of crystalline todine (with or without alkali iodide). Such a precipitate is responsible for the irritation caused to tissues after application of iodine solutions. Alcoholic solutions are more penetrating than aqueous ones, owing to their smaller surface tension, but again a deposit with irritant properties is left behind after evaporation of the solvent, which is itself painful to exposed living tissue.

By comparison, aqueous solutions of certain surfaceactive agents are able to solubilise up to 30 per cent, of odine, of which 70-80 per cent, is released as free "available" iodine on diluting the complex in accordance with specific directions. Within the surfactant complex, iodine is bound in micellar aggregates of colloid. The addition of water causes dispersal of micelles and release of iodine into the aqueous phase to create equilibrium; the released iodine is still loosely bound to the micelles. Dilution can be extended to a critical point—the minimum micellar concentration—beyond which the complex breaks down and conditions resembling those of a simple aqueous solution are created. Some iodine is permanently bound within the non-aqueous phase of surfactant, and is not therefore of practical use. However, that may be considered of little importance in view of the large amount of iodine that is potentially free.

Iodophors are non-corroding and non-staining, since the iodine is normally perpetually bound to the surfactant. It is important, though, to rinse surfaces thoroughly after treatment because the initial rinse tends to destroy the complex and to release the elemental iodine. Like simple iodine solutions, iodophors are brown in colour. However, the presence of protein such as occurs in contaminated environments causes gradual discoloration due to the formation of organic iodine/protein complexes. The iodophor is therefore self-indicative as to potency—fading in colour denotes that the preparation has deteriorated and should be replaced by a stronger solution.

Reports from the United States indicate that any irritation caused to tissues by iodophor solutions applied at recommended germicidal concentrations are transient. There is no deposition of elemental iodine after application, owing to the reversibility of the iodine-release phenomenon. As the solvent (water) cvaporates, iodine re-enters the non-aqueous phase of the complex, until finally a film consisting largely of the inactive form remains. (Tests for contamination on walls four days after application of an iodophor have proved negative, suggesting that sufficient iodine also remains in the active state.) Any irritation caused is likely to be attributed to the surface-active agent itself.

The choice of surfactant is of immense importance Iodophors have fallen into disrepute during various stages of their development, owing to the employment of ill-chosen solubilisers. Obviously the complex must release sufficient iodine into the aqueous phase before the minimal micellar concentration is reached. The surfactant may be anionic, cationic or non-ionic. Ionic agents suffer from the disadvantage that they tend to lose their activity with changes in pH and in the presence of hard water. Non-ionics are therefore to be preferred, though high alkalinity affects the activity of all iodophor formulations due to production of iodides. Some iodophor preparations contain a small amount of hydrochloric acid to give most satisfactory conditions for activity. It is desirable that a surfactant should not foam unduly, but the wetting power is in itself an advantage in that it facilitates dispersal and penetration of the iodophor.

Type and Activity

Until recently the efficacy of iodophors could only be assessed from results obtained in the United States, Frisch, Davies and Krippaehne (1958) investigated a number of disinfectants including N-methylheptylcolaminoformylmethyl-pyridinium chloride (a cationic iodophor). In a handwashing experiment similar to that described under "Evaluation of Skin Antiseptics" (see p. 674) the iodophor was found to be superior to both hexachlorophene and benzalkonium chloride, and roughly nine times as efficient as soap and water, Burdock (1959) reported on the dermatological activity of a non-ionic iodophor (Wescodyne) having the following composition:—

Polyethoxy polypropoxy polyethoxy ethanol-iodine complex. Nonyl phenoxy polyethoxy ethanol-iodine complex.

Hydrogen chloride.

Over a four-year period he had found it effective against many primary and secondary infections.

A trial recently completed at Brompton Hospital, London. S.W.3, has determined the bactericidal activity of Wescodyne "surgical" in vitro against virulent organisms in high-protein serum media. A concentration of 75 parts per million of available iodine was sufficient to kill Staph. aureus, E. coli and Candida albicans; 120 p.p.m. were required against spore-bearing Bact. subtilis. A concentration of 150 p.p.m. was decided upon as a safe minimum, and subsequent experiments proved that that strength was lethal against all four pathogens after ten minutes' exposure.

against all four pathogens after ten minutes' exposure.

Another series of tests, reported by Dr. David Haler (pathologist to Plaistow Hospital), has confirmed those results. Pus from an infected cow's udder showing gross contamination with penicillin-resistant staphylococci, β haemolytic streptococci and coliform bacilli was homogenised with peptone water and treated with sufficient iodophor solution to maintain a brown iodine coloration for thirty seconds. Subculture showed the medium to be sterile. The concentration of iodophor present corresponded to 105 p.p.m. of available iodine. A second experiment compared the efficiency of soap solution, commercial detergent, a household disinfectant and the iodophor at concentrations of 75 p.p.m. and 150 p.p.m. free iodine, for the cleansing of floors. The stronger iodophor alone sterilised the floor area for four hours. A combination of soap, which gave the greatest illusion of "cleanliness," and the iodophor was found to be incompatible. Sections of a plaster wall were infected with a liquid culture of Staph. pyogenes, B. proteus, Pscudomonas pyocyanea and mixed salmonellæ in a further test. Different strengths of iodophor were then brushed on, and after six hours the areas of plaster were removed and tested for contamination. A concentration of 150 p.p.m. available iodine produced sterility. A final trial has shown that over a period of six weeks the daily application of 1,000

p.p.m. iodophor solution has not affected the skin In a "suspension" test used for screening new substance at the National Institute for Research in Dairying, Shin field, Reading, an iodophor containing 50 p.p.m. of avail able iodine was found comparable with hypochlorite solution containing 300 p.p.m. of available chlorine.

Other American iodophor preparations that have been the subject of original articles include a formulation o iodine with ethylene oxide condensates of stearic acid (o castor oil). Katz and Shelanski (1958) reported that, becaus of the low toxicity of such complexes, use might be found for them in tooth-pastes, gargles, mouthwashes and lozenges Shelanski and Winicov (1958) evolved a complex of iodina chloride with fatty acid alkylene oxide condensates which they claimed, would offer all the iodine in the "free" form The same workers (1959) reported that effective iodopho germicides could be obtained by complexing iodine bromide with surfactants. The products appeared to be superior to previously formulated iodophors.

There seems to be considerable justification for the adop tion of iodophors as wide-spectrum microbicides for genera use in cleaning procedures, provided accuracy in their dilu tion can be assured. To train nurses and domestic staff, who have hitherto been used to pine disinfectant dilution "tech niques," might prove an arduous task. The cost in com parison to other germicides has, too, to be borne in mind (At present, a dilution containing 150 p.p.m. of available iodine costs 9d. per gallon.) Nevertheless, as Dr. J. G. Davi predicted during his recent address on chemical sterilisation to the British Pharmaccutical Conference (C. & D., Octo ber 8, p. 445), iodophors will probably grow in popularity.

* Wescodyne (West Chem. Prods., Ltd.), formulated as Wescodyne "surgícal" (Bengué & Co., Ltd.).
† Dermevan (Evans Medical, Ltd.).

CORTICOTROPHIN ON EC10

A note on its properties and uses

THE Minister of Health has announced that, from December 1, general practitioners will be free to prescribe preparations of corticotrophin. Although the hormone has been available to hospitals for some time, probably few retail pharmacists will be familiar with its use in practice. According to the Addendum, 1960, to the British Pharmacopæia, 1958, corticotrophin, also known as ACTH (adrenocorticotrophic hormone), is obtained for therapeutic purposes from the anterior lobe of the pituitary gland of the ox or pig. The hormone consists almost entirely of protein. Thirty-nine constituent amino acids have been identified, of which glutamic acid is the most prominent. Purification techniques have led to the isolation of extremely active polypeptides from the crude extract; present-day preparations of the hormone are in highly purified state and exert little contaminant vasopressor action.

Corticotrophin stimulates development of the adrenal cortex and secretion of the adrenocortical steroids. On reaching a critical blood concentration, those steroids inhibit

COMMERCIALLY AVAILABLE CORTICOTROPHIN PRODUCTS: ACTHAR and HP ACTHAR Gel (Armour Pharmaceutical Co., Ltd.); Corticotrophin and Cortico-Gel (Crookes Laboratories, Ltd.); Cortrophin and Cortrophin ZN (Organon Laboratories, Ltd.).

further corticotrophin release from the pituitary. Cortico steroid therapy leads to cortex atrophy by inhibiting al natural corticotrophin secretion. On discontinuance of such therapy, withdrawal symptoms occur owing to the inability of the cortex to secrete sufficient steroids for normal bodily requirements. Corticotrophin may be used therapeutically either as an alternative to cortisone or as an adjunct to it to maintain adrenocortical function. Conditions responding to its use include surgical shock, asthma, blood disorders and inflammatory conditions. Side effects are similar to those produced by cortisone. Oedema may be reduced by re stricting the salt intake and administering a diuretic. Potas sium loss should be compensated for by dietary supple mentation with potassium salts. Being a foreign protein corticotrophin is liable to produce undesirable reactions in patients sensitive to animal extracts; it is therefore advisable to perform intracutaneous tests on such patients before administering the hormone intravenously.

Though ineffective orally, owing to its hydrolysis by the proteolytic enzymes of the gastrointestinal tract, cortico trophin is readily absorbed from parenteral sites, and it administered by intramuscular or subcutaneous injection or by intravenous infusion. The route of administration influences its effectiveness. The hormone rapidly disappears from the circulation following intravenous administration but is inactivated to a smaller extent by local tissue enzymes when given intramuscularly or subcutaneously. Therefore both the potency, in terms of "units" of activity, and the bioassay, must refer to the method of use for which the particular formulation is intended.

Corticotrophin is water-soluble. Being thermolabile, it is sterilised by filtration, and the filtrate is immediately dried to minimise hydrolysis. The dry flaky powder is stable for at least two years if stored below 25°C. All forms and preparations of the hormone should be stored in the dark

Corticotrophin injection (1) is a sterile solution in water for injection and is prepared immediately before use. Given intravenously by slow infusion over a period of 8-24 hours, a dose of up to 60 units may be necessary to stimulate corticosteroid secretions to the fullest extent. Its use is normally restricted to emergencies. The intramuscular (or subcutaneous) pack has largely been superseded by longeracting formulations, but it is still used in diagnostic tests for adrenal function.

The majority of prescriptions met with in retail practice are likely to be for the sustained-action preparations. Corticotrophin gelatin injection(2) is a sterile solution of the hormone in water for injection for intramuscular use; it contains suitably hydrolysed gelatin (usually 16 per cent.). The preparation is stable for at least eighteen months if stored between 2° and 10°C. It is normally presented in a multidose container, the bacteriostat being phenol. The preparation requires warming before use to obtain a consistency suitable for injection. Corticotrophin zinc hydroxide injection(3) is a sterile aqueous suspension for intramuscular or subcutaneous use; it is produced by precipitating the hormone at pH 8 with zinc chloride and sodium hydroxide. Stored at 2-10°C., it has a shelf life of at least two years. The multidose vial contains benzyl alcohol as a bacteriostat. Both the gel and the suspension have dura-

tions of action of up to 48 hours. The initial dose of 30-60 units is thereafter rapidly cut down, according to the patient's response.

The B.P. stipulates certain labelling requirements additional to the usual ones for injections. They include notification of the manufacturing and expiry dates, storage conditions, the animal source of the material, the route of administration and directions for warming (if necessary).

Corticotrophin injections are controlled by the Therapeutic Substances Act. Being derived from the anterior pituitary gland, they are also subject to the restrictions imposed by Part I of the Pharmacy and Poisons Act, 1933, and by the labelling requirements contained in Schedule 7 of the regulations ("Caution: It is dangerous to take this preparation except under medical supervision").

Proprietary Brands of Corticotrophin

ARMOUR PHARMACEUTICAL Co., Ltd.-(1) ACTHAR, i-v. (30 and 75 units); i.m. or subcut. (10, 25 and 40 units). (2) HP ACTHAR Gel, i-m. (20 and 40 units per mil).

CROOKES LABORATORIES, Ltd.-(1) Corticotrophin, i-v. (30 and 75 units); i.m. or subcut. (10, 25 and 50 units). (2) Cortico-Gel, i-m. (20 and 40 units per mil).

ORGANON LABORATORIES, LTD.—(1) Cortrophin, i-v. (30 and 75 units); i.m. or subcut. (10 and 25 units), (3) Cortrophin ZN, i-m. or subcut. (20 and 40 units per mil).

Evolution of Pharmaceutical Education

A SURVEY AND DISCUSSIONS AT GLASGOW

THE Glasgow Branch of the Pharmaceutical Society, at its meeting on October 12, heard an address by MR. C. W. MAPLETHORPE (chairman of the Pharmaceutical Society's Education Committee) entitled "Education—Illusion

or Reality?"

Mr. Maplethorpe surveyed the development of ideas of general education in order to show that the evolution of pharmaceutical education was in step with general practice in the educational field. From 1843 to 1914, students could take what course of training they wished. Provided they satisfied the examiners, they were entitled to registration as chemists and druggists or as pharmaceutical chemists. As time went on it became obvious that definite courses of training would have to be laid down. In 1919 the Pharmaceutical Society's Council accepted an invitation of the Ministry of Labour to deal with applications from those connected with pharmacy whose training or course of study had been inter-rupted by the 1914-18 war. It became necessary, early in 1919, to arrange for and approve schools for training pharmaceutical students who had been accepted by the Central Grants Committee and for the allocation of students to those schools. The existing schools of pharmacy of Great Britain could barely find accommodation for 500 stu-dents out of the 4,000 applicants for State-aided pharmaceutical training.
The action of the Council resulted in the formation of schools without which it would have been most difficult to have brought into operation the scheme for a compulsory curriculum. New regulations were made providing for the division of the Qualifying examination into two parts and making it necessary for students to attend a systematic course of instruction at approved institutions for each part of the Qualifying examination. By 1920 there were twenty-five institutions distributed

throughout the country providing courses approved by the Society for both parts of the Qualifying examination. In regard to Part II, the policy was to approve facilities in a limited number of schools only, so that the financial position of the schools would be maintained and it would be easier for them to keep pace with requirements.

First Steps Towards Degree

During 1922, the Council made representations to the University of London urging the institution of a degree in pharmacy. Regulations affecting the degree for internal students were approved by the Senate during 1924. In 1925 the Council was notified that it had been agreed to establish a similar degree for external students, Coincident with the preparations of the syllabuses for the degree examination, the Council proceeded with the revision of the regulations affecting the Society's examinations, and in 1925 a completely revised set of those regulations was approved.

In 1937, a Committee of Inquiry was set up by the Council of the Society to consider the conditions under which pharmacy was practised. In Part II of that Committee's report, published in 1941, education and examination were described as the most important part of the Society's work. Two principal steps mentioned in the progress of pharmaceutical education were the raising of the standard of the intermediate examination to that of Intermediate Bachelor of Science, and having one Qualifying examination based upon the Pharmaceutical Chemist Qualifying examination course, the ultimate unification of the two Registers being visualised. The Committee further stated that admission to the Register would be either through the examination conducted by the Society or through a university degree.

A Fundamental Revaluation

In February and April 1947 the Education Committee presented reports to the Council which showed that they had undertaken a fundamental revaluation of the requirements for qualification, based on the historical survey. The April report of the Education Committee recommended that the Intermediate examination should comprise four subjects at a more advanced standard than formerly and be passed before commencing practical training; that practical training should be of two years' duration if undergone prior to the final examination, or one year after the examination; and that the course for the final examination should be a two-year course, provided that in 1952 the course should become three years. That report was adopted in April 1947 and, at the Branch Representatives' meeting in September 1947, a resolution supporting the whole policy was carried by a large majority. The next stage was to make the necessary amendments in the examination regulations. Regulations carrying the changes into effect were approved by the Privy Council in May 1948.

In 1951 the regulations were modified to revert to the pre-1948 conditions permitting a student to commence practical training before passing the Intermediate examination. During the next few years that reversion was the subject of continuous criticism on the ground, primarily, that it was contrary to the best interests of the student. The Education Committee decided to set up an educational policy subcommittee, and in April 1956 an interim report considered by the Council recommended that candidates for registration as students of the Society should have passed the Intermediate examination (renamed the Entrance examination); that admission to the Entrance examination should not depend upon attendance at an approved course of instruction: that

practical training should have to be taken after passing the Entrance examination; that the time occupied in practical training and at a school of pharmacy should be four years, of which not less than one year should be practical training; that no less period of practical training than six months in any one establishment should be recognised; and that articles of pupilage and approval of premises for training should be discontinued.

New regulations for registration as a " student became effective on March 1, 1958. The requirements presented a kind of telescoping of the former Entrance and Intermediate requirements. The essential difference between the old and the new was that two of the subjects had to be passed at the advanced level of the General Certificate of Education. If either or both of those subjects were chemistry, physics or biology, they counted in place of the same subjects of the Entrance examination. If all three science subjects were passed at advanced level, the full entrance requirements were satisfied. One reason for making two advanced level subjects compulsory was that it fitted in with the basic requirements for

University entrance. Since just after the 1939-45 war, students could no longer all freely choose whether to read for a degree or for the Society's Qualifying examination, The change would encourage students to remain at school in the sixth form and get the benefit of the more favourable conditions of study which that implied. There was, however, no compulsion to stay on in the sixth form or indeed to attend any particular type of school. Flexibility was an important feature of the new requirements, a further instance being the freedom to take the advanced level or entrance examination subjects one at a time. In Scotland the student could, after satisfying the requirements for the Attestation of Fitness to enter a University in Scotland, take the three science subjects in the Society's Entrance examination or the G.C.E. advanced level after leaving school. Again, he was not required to take instruction in any particular way or place.

Academic Training

The length of the course of the Qualifying examination was extended from two to three years on March 1, 1958. Subsequently it was felt that the jump from one to three years was too great, and power was taken in the regulations to extend the two-year course introduced in 1948 to three years when the Council considered it expedient to do so. It was intended that the final year should, to some extent, include a knowledge of the practice of pharmacy in the shop, hospital and factory. That naturally included some degree of knowledge of business administration in addition to a whole range of information which had been incorporated in what was now known as section K of the syllabus. That had now been published. The extended course made it possible, in addition, to avoid concentrating all the subjects of the Qualifying examination into the last few months of the course.

Practical Training

The reduction to one year in the time devoted to practical training was a reflection of the changed conditions that obtained in practice. The need for the school to take over some of the functions which, in the past, had been discharged by the apprentice-master had become increasingly apparent, and the rôle of the pharmacy as a trainingground, in the old sense of the word, had progressively diminished. That did not mean that practical experience was not still an essential part of training. It had recently been agreed by the Council that practical training might take place in any establishment under the direction of a pharmacist.

With the current system of education it must be clear to everyone concerned that the pharmacist was the ultimate professional authority on drugs.

professional authority on drugs.

It was pharmacists' responsibility to ensure that pharmacy in the future would emerge as a profession of those engaged in the practice of the sciences and technology of modern therapeutics.

Discussion

The meeting being opened for questions, Professor J. P. Dodd congratulated Mr. Maplethorpe on his address. He suggested that every effort should be made to have the full address printed in the pharmaceutical Press, a view that was supported by all present.

Mr. Lewis asked the speaker if the Society's new educational syllabus might lead to the closing of small schools of pharmacy, at which the equipment was inadequate for completion of the syllabus. Mr. MAPLETHORPE replied that it was possible that some of the smaller schools would be closing, but in general, in most of them, the buildings would be extended and better facilities given. MR. J. J. LEWIS also asked if the new regulations as to serving apprenticeship applied to students studying under a pharmacologist during apprenticeship. Mr. MAPLETHORPE said he saw no reason why a pharmacologist should not be as good as a pharmacist, as the two studies were closely linked.

MR. JAMES CHILTON asked if the new educational requirements were causing any reduction in the number of candidates entering pharmacy. MR. MAPLE-THORPE replied that, at present, the number of candidates was up, but there was a possibility that the total entry for 1961 might be slightly down. At present that was not a ground for concern.

MR, C. J. COOPER asked whether a new University being built in Scotland would draw the Council to apply for a B.Sc. Pharmacy course to be run. MR. MAPLETHORPE replied that the Council would support the B.Sc. course at any new University, but the final decision would not rest with them.

MR, G, HALL asked if it was economic that all that money should be spent on further education for the retail pharmacist. MR, MAPLETHORPE thought that it was all worth its expense, as the pharmacist was not only responsible for the selling of medicines: he was required to know all about the medicines he was handling. With the many new substances being introduced, a more extensive course was necessary.

MISS E. S. ANDERSON asked if training within the College was an adequate apprenticeship. She thought that a wider experience was necessary before a student was given statutory qualifications, MR. MAPLETHORPE replied that students should, if possible, come out of college for their apprenticeship, but there were many cases of students continuing their studies in college who had never gone on the Register of Pharmaceutical Chemists. It was therefore desirable to extend the regulations governing apprenticeship to cover that situation.

DR. J. B. STENLAKE asked whether there was any possibility of further pharmaceutical industries coming to Scotland, as that was always attractive to students, for whom there were not many jobs available in industries in Scotland. MR. MAPLETHORPE replied that there was one in Montrose and one in Airdrie. He would, however, draw the attention of the Association of British Pharmaceutical Industries to the needs of Scotland so far as industry was concerned.

MR. J. AITCHISON asked if the Society's educational policy was not encouraging the formation of health centres throughout the country. MR. MAPLETHORPE replied that that was not a policy of the Society: the final decision must rest with the politicians.

MR. A. CALDWELL asked if the new extended educational policy should shorten the examination for Associateship of the Royal Institute of Chemists. MR. MAPLETHORPE replied that there was no link between the two examinations.

MR. J. G. MAIR asked if the Society had a method of publicising the higher qualifications of the Society. The reply was that the Society was anxious that all other professions, especially the medical profession, should know of the extended education policy of the Society.

OVERSEAS NEWS

UNITED STATES

Computer in Patent Office

TWO mechanised systems have been developed in the United States Patent Office which cut patent searching time to minutes instead of the hours required by the manual method. One system uses an electronic computer, the other a punched card machine. At present the systems are in experimental use in the Patent Office in connection with organic phosphorus compounds, but eventually it is hoped to make a system available for industrial use,

GERMANY

Industry Concentration Inquiry

THE West German Bundestag passed a Bill recently providing for an inquiry into "concentration" in the country's economy. The inquiry is to establish the present market situation of firms in the various sectors of the economy, as well as the ties between them. It is to give a survey of concentration patterns, the motives behind them and their consequences on the market situation. Under the Bill, approved by all parties in its final reading, a report on the inquiry's results must be made within two years.

CUMULATIVE LIST OF AMENDMENTS TO THE C. & D. Quarterly Price List, September 1'

THIS WEEK'S CHANGES ARE GIVEN SEPARATELY AT END

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Ambre Solaire (525 Golden) aerosol. 10 oz 20 oz 40 oz 40 oz 80 oz Anabolex (769 LH) tablets 25 mgm 250 Anadin (655 ICC) tablets	10 8 19 2 91 0 60 0 108 0 0 16 00 28 66 160 06 14 6 28 5 49 3 228 0 0 16 10 18 0 0 16 10 16 0 0 16 10 16 0 0 16 10 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 16 0 0 0 0	5 9 45 eaa ea ea ea 4 4 9 9 4	4 1 3 6 15	8 0 0 0 1s4B 11 9 6 6 ts4B 0 ts4B 0 ts4B 6 6		tablets	33 15 31 107 doz 6 15 31 15 8 21 15 100 300 17 27 66 54 22 45	0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 3 7 7 26 doz 4 6 33 27 5 11	3 9 9 60°s 991 3 81 0 0 3	4 3 1 11 4 0 3 1 11 4 0 1 9 1 0 2 6 1 9 1 0 2 6 1 9 1 9 1 0 2 6 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	
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Brennisy (194 Bronnley) 72	86	0	21 6	12	0	perfume handbag 017 7 9ea 3 9ea 18 0 14 9ea 7 2ea 30 0
after shave cream 1. 209 lotion $2\frac{1}{2}$ oz 201/2 5 oz 201	25	3	16 1 12 3 22 2	6 4 7	6 3 8	10z 015 26 3ea 12 91ea63 0 1 0z 014 42 0ea 20 6ea 86 0 2 0z 013 75 0ea 36 6ea160 6
baby lotion	20	6	5 0 4 2	3 2	0	handbag coffret SE 15 9ea 7 8ea 32 0 "Secret de Venus" bath oil
powder 3 oz 770 bath crystals 2 lb 400/2	44		4 2 21 9	7	6	1 oz 060B 20 9ea 10 1ea 42 6 1 oz 061 37 6ea 18 3ea 75 6
$\begin{array}{ccc} & 4 \text{ lb} & 400/4 \\ & \text{salts apothecary jar} & 436 \\ & \text{bay rum } 2\frac{1}{2} \text{ oz } \dots & 207/2 \end{array}$	51	0	36 10 24 11 10 9	12 8 4	0 6 2	2 Oz 062 67 6ea 32 11ea135 0 4 Oz 063 127 6ea 62 2ea266 6 boblne single 060 4 3ea 2 04ea 8
5 oz 207 beauty Cologne			16 10	8	3	boblnes 12 060 50 0ea 24 4jea102 0 Cassells (Dr.) (104 BP)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			26 4 39 0	13	6	tablets
bath essence 2½ oz 1027/82 5 oz 1027/83			26 4 37 0	9 13	6	electric blanket control
hand lotlon 5 oz 1027/84 talcum powder 1027/85	39 24	6	18 9 12 0	7	0	Setherm (315 Crater) electric blanket control
bath cubes (6) 1027/86 (12) 1027/89	54	0	13 11 26 4	5	0	### Collection ### Collection ### Collection ### Collectio
brilliantine 2½ oz 206/2 5 oz . 206 honey and flowers			10 9 16 10	8	3	25 325 0ea 487 6 TS 100 1300 0ea 1650 0 TS
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eriginal oatmeal cream 253/1 253/2	38		9 0 18 6	8	3 6 3	107 0 26 9 3 doz 60's doz 60's 195 0 48 9 3
pine bath cubes (6) 2022/6 essence 10 oz 902 pre-electric shave lotion		0 9	4 3 29 8	6	6	195 0 48 9 3 doz 120's doz 120's tablets 15 0 3 9 1 11
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refill 205/R stick	34	0	14 2 8 3	6 2	6	doz 48's doz 48's Dolate 60 Dolate 120
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baby toilet (3)1030 bath ball1008	57	0	10 0 13 8	6	6	Chesties (1215 Teasdale) Solution of the street of the st
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bath 601/B visitors 601/V	21 7	8 3	5 3 1 9	3	3	Accuffash
marbles (34) 434			11 11	7	6	thread counter 6 0
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men's toilet (3) 204 original round bath	46	0	11 3	6	9	screen plate 12 6 throat spatula kit with stand
men's toilet (3) 204 eriginal round bath	23 10 18	0 6 6	11 3 5 7 2 7 4 6	6 3 1 2	9 8 9	screen plate 12 6 throat spatula kit with stand 15 6 dental kit with stand 13 6 otoscope 113 4 adaptor 16 6 reading lens 20 6
men's toilet (3) 204 original round bath	23 10 18 11 49	0 6 6 6	11 3 5 7 2 7 4 6 2 7 12 2	6 3 1 2 1 7	9 8 9 6 6	screen plate
men's toilet (3) . 204 eriginal round bath 1007/3 pine tollet 3 oz . 650 bath 6 oz . 651 pre-make-up . 1052 Bootch heather (3) . 1055 "sea sheil" guest . 435 "sheil" (3) 1050	23 10 18 11 49 57 39	0 6 6 6	11 3 5 7 2 7 4 6 2 7 12 2 13 8 7 5	6 3 1 2 1	9 9 8 9 6 6 6 8 3	screen plate
men's toilet (3)	46 23 10 18 11 49 57 39 8 15 28	0 0 6 6 6 6 0 0 6 6 7	11 3 5 7 2 7 4 6 2 7 12 2 13 8 7 5 2 1 3 2 13 11	6 3 1 2 1 7 8 4 1 2 4	9 9 8 9 6 6 6 8 3 2 9	screen plate
men's toilet (3)	23 10 18 11 49 57 39 8 15 28 21	0 0 6 6 6 6 0 0 0 6 6 7 0 0 6	11 3 5 7 2 7 4 6 2 7 12 2 13 8 7 5 2 1 3 2 13 11 10 3 16 10	6 3 1 2 1 7 8 4 1 2 4 3 6	9 9 6 6 6 8 3 2 9 6 9	screen plate
men's toilet (3) 204 original round bath	23 10 18 11 49 57 39 8 15 28 21 34 26	0 0 6 6 6 6 0 0 0 6 6 7 0 0 6	11 3 5 7 7 4 6 2 7 12 2 8 7 5 2 1 3 11 10 3 16 10 12 8 9 6	6 3 1 2 1 7 8 4 1 2 4 3 6 4 3	9 9 8 9 6 6 6 8 3 3 2 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9	Screen plate
men's toilet (3)	23 10 18 11 49 57 39 8 15 28 21 34 26	0 0 6 6 6 6 6 0 0 0 6 6 7 0 0 0 0 0 0 0	11 3 5 7 2 7 4 6 2 7 12 2 13 8 7 5 2 1 3 2 13 11 10 3 16 10 12 8	6 3 1 2 1 7 8 4 1 2 4 3 6 4	9 8 9 6 6 6 8 3 3 2 9 6 9 6 9 9 6	Screen plate
men's toilet (3)	23 10 18 11 49 57 39 8 15 28 21 34 26	0 0 6 6 6 6 6 0 0 0 6 6 7 0 0 0 0 0 0 0	11 3 5 7 4 6 2 7 12 2 13 8 7 5 2 1 3 2 13 11 10 3 16 10 12 8 9 6 9 6	6 3 1 2 1 7 8 4 1 2 4 3 6 4 3	9 9 8 9 6 6 6 8 3 3 2 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9	Screen plate
men's toilet (3)	23 10 118 111 49 57 39 8 15 28 21 19 33 60 11 18	0 0 6 6 6 6 0 0 6 6 7 0 0 0 6 6 0 0 8 1	11 3 5 7 2 7 4 6 7 12 2 13 13 11 10 3 16 10 3 16 10 0 9 6 16 0 5 10 9 0½	6 31 2 1 7 8 4 4 1 2 4 3 3 6 4 4 3 3 6 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	9 9 8 9 6 6 6 6 8 3 2 9 6 6 6 6 8 3 3 2 9 6 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Screen plate
men's toilet (3)	23 10 18 11 49 57 8 8 15 28 21 34 26 21 19 33 60 11 18 32	0 0 6 6 6 6 0 0 6 6 7 0 0 0 6 6 0 0 8 1 0	11 3 5 7 2 7 4 6 2 7 12 2 13 13 11 10 3 16 10 12 8 9 6 9 6 16 0 5 10	6 3 1 2 1 7 8 4 4 1 1 2 4 3 3 6 4 7 1 1	9 9 8 9 6 6 6 8 8 3 2 9 6 6 9 6 6 9 6 8 9 9 6 8 9 9 6 8 9 8 8 8 8	Screen plate
men's toilet (3)	23 10 18 11 49 57 8 8 15 28 21 33 8 60 11 18 32 25 18	0 0 6 6 6 6 0 0 6 6 7 0 0 0 6 6 0 0 8 1 0	11 3 5 7 2 7 6 4 6 2 7 12 2 13 13 11 10 3 16 10 12 8 9 6 9 6 16 0 5 10 16 00 16 00	6 31 12 17 8 4 4 1 2 4 3 3 6 4 4 3 3 6 7	9 9 8 9 6 6 6 8 8 3 2 9 6 6 6 8 8 3 3 8 9 6 6 6 6 6 6 6 6 6 6 6 7 8 8 8 8 8 8 8 8	Screen plate
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men's toilet (3)	46 (23) 10 (18) 11 (19) 12 (19) 13 (19) 13 (19) 13 (19) 13 (19) 13 (19) 13 (19) 14 (19) 15 (19) 16 (19) 16 (19) 17 (19) 17 (19) 18	0 0 0 6 6 6 6 0 0 0 6 6 7 0 0 0 0 6 6 0 0 0 0	11 3 5 7 2 4 6 2 7 12 2 7 13 8 7 5 10 12 8 9 6 6 16 0 12 9 4 7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 3 1 2 1 7 7 8 4 4 1 1 2 2 4 3 3 6 6 4 2 2 8 6 6 8 8 2 6 7 1 2 2 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 8 8 9 6 6 6 8 8 3 2 2 9 6 6 9 6 6 3 8 8 8 10 10 10 0 0 6 6 6 0 TS 8 TS 6 6 6 0 6 6 6 0 6	Screen plate 12 6 Characteristics 15 6 Characteristics 13 7 Characteristics 15 6 Characteristics 15 6 6 Characteristics 15 6 6 6 Characteristics 15 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
men's toilet (3)	23 10 18 11 19 19 19 19 19 19	0 0 6 6 6 6 0 0 0 6 6 7 0 0 0 0 6 6 0 0 0 0	11 3 5 7 2 7 6 2 7 7 12 2 7 13 2 13 11 10 3 11 10 3 11 10 12 8 9 6 9 16 0 5 10 0 12 9 4 7 8 6ee 22 3 3 1ee 5 2ee	8 31121178844122433664 33366 7 122664 2 28 66 8 8 26 7 12211 1 1 4	9 9 8 8 9 6 6 6 8 3 2 2 9 6 9 6 6 3 8 6 0 0 TS 5 0 TS 6 6 0 0 6 6 6 0 6 6 6 6 6 6 6 6 6 6 6	Screen plate
men's toilet (3)	18 119 49 57 38 15 128 221 19 13 3	0 0 6 6 6 6 0 0 0 6 6 0 0 0 6 6 0 0 0 0	11 3 5 7 7 4 6 2 7 12 2 7 13 8 5 2 11 3 11 10 3 10 11 2 8 9 6 6 9 6 0 0 12 9 0 12 9 6 9 6 0 12 9 12 9 1	6 3 1 2 1 7 7 8 4 4 1 1 2 2 4 3 3 6 6 4 2 2 8 6 6 8 8 2 6 7 1 2 2 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 8 8 9 6 6 6 8 3 2 9 6 9 6 6 3 8 6 10 10 0 0 6 6 6 0 0 0 TTS	Screen plate 12 6
men's toilet (3)	46 23 110 118 111 49 49 49 8 15 128 211 134 226 21 119 33 60 11 18 32 25 18 18 10 128 64 204 45 6 10 6 6 34 22 119 22 21	0 0 6 6 6 6 0 0 0 6 6 0 0 0 6 6 0 0 0 0	11 3 5 7 2 4 6 2 7 12 2 7 13 8 7 7 15 10 12 8 9 6 6 16 0 0 12 9 4 7 8 6 6 1 6 1 6	6 3121778841122433664 3336 7 12264 2 28 66 88 26 7 12110 4 326328	9 9 8 8 9 6 6 6 8 3 2 2 9 6 9 6 6 3 8 6 10 10 0 0 6 6 6 0 TS S TS 6 6 0 0 6 6 6 4 0 8 0 0 TS S TS 6 6 0 6 6 0 6 0 6 6 0 0 6 0 6 0 6 0 0 6 0 0 6 0 0 6 0 0 6 0 0 6 0 0 0 0 0 0 0 0 0	Screen plate 12 6
men's toilet (3)	100 18 11 19 15 17 39 18 15 128 21 19 18 32 25 18 18 12 18 18 18 18 18 18 18 18 18 18 18 18 18	0 0 6 6 6 6 0 0 0 6 6 7 0 0 0 0 6 6 0 0 0 0	11 3 5 7 7 4 6 2 7 12 2 7 13 8 5 2 11 3 11 110 3 116 10 112 8 9 6 6 9 6 0 5 10 99 0½ 16 0 9 0½ 16 0 9 0½ 16 0 9 0½ 16 0 12 9 16 0 12 9 16 0 12 9 16 0 16 0 16 0 16 0 16 0 16 0 16 0 16	6 31121178841122433664 3336 7 12264 2 28 66 8 26 7 1211 1 4 3 2 2 3 2 3 2 3 4 4 3 3 6 4 4 3 3 6 3 2 8 6 4 4 4 3 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4	9 9 8 8 9 6 6 6 8 3 2 9 6 9 6 6 3 8 6 10 10 0 0 6 6 6 0 0 0 TTS 8 6 6 0 0 6 6 4 0 8 0 8 0	Screen plate 12 6
men's toilet (3)	18 11 19 15 18 15 18 15 18 15 18 15 18 15 18 15 18 15 18 18 15 18 18 18 18 18 18 18 18 18 18 18 18 18	0 0 0 6 6 6 6 0 0 0 6 6 7 7 0 0 0 0 6 6 0 0 0 0	11 3 5 7 2 4 6 2 7 12 2 7 13 8 7 7 12 13 11 10 3 116 10 0 12 8 9 6 6 16 0 16 0 12 9 4 7 8 6 6 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 3121788411243364 3336 7 1264 2 28 618 826 71210 4 3263 28 26	9 9 8 8 8 6 6 6 8 3 2 9 6 9 6 6 3 8 8 10 10 0 0 6 6 TSS TS TS 6 6 0 6 6 6 0 6 6 6 4 0 8 0 8	Secreen plate 12 6 Chicorat spatula kit with stand 15 6 Chicorat spatula kit with stand 13 7 Chicorat spatula kit with spatula

I	Delete Ciloprine (768 Cilag) 5 n	nils					Dorothy Gray (385 DG)
	Colchipirine (292 C) tablets dp 400	227	7 4			†s7	propelling eyeiiner
	dp 1000	575	5 4			197	Dulcolax (154 B)
	Coldrex (976 PS&T) 24 Colgate (280 CP)	41	8 10	5	5 6		suppositories 10 mgm 6 25 0 3 $1\frac{1}{4}$ 50 150 0 18 9
	shaving stick refill	10		6 1	1 4		50 150 0 18 9 200 47 6ea 71 3
	Comba-Curler (888 Newey) Conotrane (1305 WB)	10	3 2	61 1	1 6		tablets 5 mgm 30 25 0 3 11
	silicone cream 60 gm	60	0	. 7	7 6		200 130 0 16 3 1000 51 6ea 77 3
	200 gm 500 gm	144 25		. 18			Duromorph (718 LAB)
	Corangil (37 Allied)	20	Oea .	. 37	7 6		ampoules 1·1 mil 6 81 0 9 0 DD Ekco (1377 Ekco)
	tablets 50° 250	8	10	. 12			Ekcostat control 32 6
	1000	129		. 53	3 9		Elasto (887 New Era) nature saive 24 0 6 0 3 6
	Cordex (1263 Upjohn) tablets 100	7	700				120 0 30 0 17 6
	500	29	7ea . 6ea .			TS TS	tablets 44 0 11 0 6 5 176 0 44 0 25 8
	forte 100	14	3ea .			TS	Elastoplast (1155 S&N)
	Gravens (316 Craven)	62	Sea .	•		TS	first aid dressings $3 \times \frac{7}{8}$ in 100 11400 114 0 13 3
	best barley sugar 5 lb	13				qtr	waterproof
	best English mints 5 ib blackcurrant aniseed 5 lb	14	10 1 ea . 2ea .		101	qtr	$3 \times \frac{7}{8}$ in 100 12400 114 0 13 3
	blackcurrant pastilles 1 lb	10	3 .		0	qtr	3 × ½ in 100 14400 171 0 20 0 Emir (350 Dana)
	Blix llcorice pastilles 6 lb	19 16			10	qtr qtr	
	crystal mints 4 lb	10	8ea .		10	qtr	129A 6 3ea 3 1ea 12 6
	giucose iemon bariey 5 lb menthol and	11	10∤ea .		9	qtr	129V 10 6ea 5 2ea 21 0 toilet soap (3) 508 6 0ea 1 6ea 10 6
	eucalyptus BPC 5 lb	16	5ea .	. 1	0	qtr	Enavid (1121 Searle)
	Nucia jar	45	0 22	6 7	6		tablets 10 mgm 20 31 0ea 46 6 †s4B 50 69 10ea 104 9 †s4B
Polol	Crookes (324 Crookes) B-compl			•	·		250 323 3ea 484 10 104B
	Cryogenine (49 AF) tablets, 0.25 gm 10	20	0 5 (2	8		Endoxana (1305 WB)
	Cuir de Russie (247 Chanel)	20					
1	soap toilet bath	• • •					vials 100 mgm 10 40 0ea 60 0 tels4A
	taicum6902			. 13	0		200 mgm 10 53 4ea 80 0 †sls4A Energen (421 Energen)
	Cumfy-8ocks (1075 R) Cupal (333 Cupal)			_	11		low sugar jams
	gripe mixture 6 oz	12	0 2 8	3 1	10		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Cussons (388 Cussons) Imperial leather hair cream						plum 1 lb 13 6 1 6
	5480	ه14	0 6 10	2	6		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Cutipen (327 WC)	19	0 9 6				1 lb 20 3 2 3
	Cyphoids (1152 SK)	10 4	6 5 3		9 74		Eno's (104 BP) fruit sait 24 0 6 0 3 0 42 8 10 8 5 4
	Daranide (837 MSD)	9		3 1	3		Erythrocin (2 Abbott)
	tablets 50 mgm 100	40	Oea	. 60	0		Filmtabs 100 mgm 25 10 3ea 15 5 TS 100 38 10ea 58 3 TS
releti	Dascote (1262 UL) 16						500 185 2ea 277 9 TS
	Decadron (837 MSD)						250 mgm 25 21 3ea 31 10 TS 100 83 7ea 125 4 TS
	tablets enteric coated	700	0				500 406 3ea 609 4 TS
	0.5 mgm 100 500	792 3774	0	. 99 . 471	9		I.M 1 mil 5 2ea 7 9 TS 2 mils 6 8ea 10 0 TS
	Deep (102 CB) treatment shamp	900 48	0 10 (10 mils 31 0ca 46 6 TS
	soap treatment tube	20	0 12 0		9		lactobionate 300 mgm 10 6ea 15 9 TS suspension 60 mils 6 0ea 9 0 TS
	Deirosa (976 PS&T) rose-hip syrup 6 oz	90	•		_		Eskornade (1153 SKF)
	12 oz	22 38	6	2	6 3		Spansule 30 128 0 32 0 18 8 †s7 Esslim (1158 Sodastream)
	Delta-Butazolidin (501 Geigy) tablets 150	570	0			L- 4 A TOO	squash
	_ 500	570 1740	0	71 217		84ATS	Eura 66 (884 NB) camera38 6 Evan Williams (437 EW)
	Dento (219 Calvert) Dequadin (34 A & H)	10	8 2 8		5	-1-1-1	skin cream 7 6 3 9 1 3
	tulle 4 × 4 ln 10	44	0	. 5	6		Fair-way (438 ER)
	Desert Flower (1131 Shulton)	89	0	. 11	11		after shave lotion 57 0 28 6 9 6
	dusting powder	77	0 37 6	13	6		Fashion Style (631 Hudnut) soft casual 202 33 6 16 9 5 6
	hand and body lotion	44	6 21 8	7	9		200 53 6 26 9 8 9
	purse perfume	92 70	6 45 1 0 34 2	16 12	6		very curly 203 33 6 16 9 5 6
	spray cologne	128	0 62 5		6		for children 998 29 6 14 9 4 9
	tollet water	37 70	0 18 0 0 34 2		6		Feather Finish (1355 Yardley) Florentine case1402 69 0 34 6 11 6
1	Dexten (70 Aspro) 250	210	0	26		†84B	Delete Felicur (1107 SAGB)
	Dianabol (262 CIBA) drops 20 mils	76	0	9	6		(distributors 973 Pharmethicals) capsules1000
	Dilavase (917 Organon)						Fennings (1100 JS)
	tablets 50 250	96 33	0 4ea	12 50	0		baby dusting powder 14 6 3 7 1 11 cooling powders children's
	Dilosyn (179 BDH)					2	5 45 0 11 3
	syrup 4 oz tablets 25	60 60	0 15 0 0 15 0			†84B	gross gross
	250	480	0 120 0		0	†84B †84B	100 69 6 17 41 11
	Dimyril (502 Genatosan) linctus 2 oz	29	0 7 4	4	3		utile nealers 36 12 6 3 1 1 6
	4 oz	50	0 12 8	7	3		12 60 0 15 0 8
	Dinneford's (104 BP) magnesia Discord (876 MP)	19 13	8 4 11	2	6		Feravol (228 Carlton) gross gross
	Distaval (378 DCBL)			2	3		syrup 4 oz 34 0 4 6
	tablets forte 100 mgm 1000	204	0ea	306	0 -	†84B	8 oz 60 0 7 6
	vet. viai	s 46	6ea	69	e		80 oz 42 6ea Fibrenyle (461 FL) throat spray 9 3 1 2
		***	oea	99	6 †T	SVPO	Fiery Jack (488 Fylde)
	Distivit (378 DCBL) 20 elixir 4 oz	3	0ea				warming wool 13 6 3 4½ 2 6 Flair (1355 Yardley)
	elixir 40 oz	24	0ea	4 36	6		bath oil4866 75 0 37 6 12 6
	1000 tablets 4	6	0ea	9	0		dusting powder 4809 93 0 46 6 15 6 Cologne 4884 69 0 34 6 11 6
	Do-Do (657 IL) tablets 8	12	7 3 2	1		.7	4885 126 0 63 0 21 0
	25	31	0 7 9	4	8 s 2 s	37	crystallised
	Dennazyme (1071 Robins)	110	0 27 6	14	7 s	37	½ oz4892 165 0 82 6 27 6
	tablets 50	122	0 30 6	14	61	8184A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	500	1020	0 255 0		3	8184A	spray mist 4847 87 0 43 6 14 6

002			-				73771571	21112	DREGGIS1	•	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 111	701	20	, 1)
	Flavelix (466 FF) linetus 4 oz 20 oz	$\frac{28}{100}$	0 0	7	0	4	1 187		Helena Rubinstein (596 HR) liquid eye finer					9	6
	Floidam (900 Norton)	30	0ea		• •		†±7		red sable brush Hemotabs (634 GH) 12	$\dot{2}\dot{2}$	9	5	81	5 3	6
	lotion 3 oz 5½ oz Floidam Tan (900 Norton)	39 66	0	19 33	6	6 11	6		H.F. (AS & CO) after-shave lotion	18	0	8	6	3	6
	3 oz	57 105	0	28 52	6 6	9 17	6		bay rum brilliantine dandruff shampoo	18 18 18	0	8 8 4	6 6 3	3 3 3	6 6 3
	Flurymal (1107 SAGB) (distributors 973 Pharmethicals		•	02	Ü		·		halr cream pre-shave	18 18	0	8	6	3	6
	pessaries 6 50	84 52	0 0ea		• •	10 78	6 TS		Hide-It (876 MP) Hi-lift (1028 Rapidol) bleach	$\frac{10}{21}$	6	2 10	71 6	1 3	6
Delete	Formula 21 (539 Greenwood) Formula 21 (104BP) 7-day	81	7			d	6		Humatin (938 PD) capsules 16	$\begin{array}{c} 40 \\ 243 \end{array}$	0ea tea			60 365	0 TS
	Fovane (583 HP)	201	7		1.	21	0		Hydratene (276 C&C) tablets 25 250	30	0			3 20	9 † 0 †
	tablets 50 mgm 30 100 500	$\frac{19}{60}$ $\frac{290}{10}$	2ea 0ea			28 90	9		lbcol (671 Jeyes) 8 oz 16 oz	$\frac{160}{15}$	0 3 6			1 2	8
	Fracas (Piguet (1201 Supervite)) bath oil ½ oz	13	0ea 0ea	6		135 26	9		Ibis 34 (884 NB) camera Ibis 44 (884 NB) camera	• •				72 78	6
	Franccide (208 BW) vet injection 400 mils	225	0	Ü		25	0 V80		immac (655 ICC) hair removing cream	44	2	22	1	7	0
Delete	Fresh Magic (876 MP) gel and sti Freshman (876 MP)	ick							Inapasade (1154 S&N) granules 60 pkts	47	Gea			71	3 TS
	aftershave Gone Tan	21 33	0	10 16	6	5	6		120 pkts 1000 gm	87 80	6ea 0ea			131 120	3 TS
	hairfix	15 7 45	0 6 0	$\frac{7}{3}$	6 9 6	2 1 7	6 3 6		Inecto (1028 Rapidol) creme hair lightener	20	0	10	0	3	4
	shampoo sponge-on deodorant	17 31	0	4 7	3	2	6		Infurno (232 Carter) massage cream 1½ oz Insulex (658 Insulex)	18	0	4	6	3	0
	retill talcum	13 21	6	3 10	41 6	2 3	6		ice bowl	22 56	0ea 0	$\frac{2}{14}$	7ea 0	35 7	6
	Froidex (787 Macfarlan) anti-freeze ½ gall	147	0			16	0		Jackson's (662 EJ) lozenges L.L.C 2 oz	8	6			1	0 †
	Fru-vita (690 Keldon)	$\frac{282}{28}$	9			30 3	6		pastilles bronchial eatarrh 2 oz	12	0	2		1	9
*	tablets 15	69 76	0 7ea	17	0 1 lea	10	0		creme de menthe 4 oz	12 50	0			6	6
	Fynnon (104 BP) balm salt	25 23	10 4	6	5½ 10	3	5		Jane Seymour (665 JS) wonder cream	$^{7}_{12}$	0	3 6	6	1 2	2
Delete	Gala (876 MP) hormone day/night	20	*	Ů	10	Ī	•		Jeypeat (671 Jeyes) compound trial	24	0	U		3	0
Delete	cream tube	15	0	7	6	2 10	6		pack of 8 pack of 4	29 27	4			5 10	6
Delete Delete	mascara	33 21	0	16 10	6	5	6		Jeypine (671 Jeyes) sack 4 oz	24 9	0ea		::	36	0
Delete Delete	perfume	$\frac{27}{27}$ 111	0 0	13 13 55	6 6	4 4 18	6 6		Johnsons (672 Johnson)	22	6		• •	2	6
Delete	velvet film super base	33 24	0	16 12	6	5	6		baby suds Juvel (1285 Vitamins) elixir 6 oz	17 56	3 0			7	0
	velvet finish puff beauty soap (3)	7	6	3 11	9	1	3		Kent (693 Kent) denture brush "Clinic"	28	0			3	6
	Gamgee (1073 Robinson) tissue blue label BPC 2 oz	7	3½1b			1	3		tooth brush "Park Lane" ex hard	$\frac{22}{23}$	$\stackrel{0}{4} \dots$			2	9
*	4 oz 8 oz	6	8#lb			2 4 8	3 2	p.1.	Kerofil (695 TK) lozenges	14	0	3	6	2	0
	pink label NHS No. 3 2 oz 4 oz	6 5 5	11lb 10 lb 31lb			1	0	Delete	Kia-Ora (1082 RKO)						
	8 oz 16 oz	4	10 lb 7 lb			3	3 2		Kodak (711 Kodak)	25	0	73	0	42	6
Delete	Geuozo (502 Genatosan) tooth-pa Germolene (104 BP)	35	5		101	4	6	Delete	Brownie Cresta 3 camera plastic case 925 Brownie model 1	292 64	0	16	ő	9	å
	Germoloids (104 BP) Germoplast (104 BP)		10		10		0 10}	Delete Delete	Flash II, III, IV and B						
	Gestanin (917 Organon)	15	8		• •	1 27	9	Delete							
	tablets 5 mgm 30 100 Gillette (514 Gillette)	18 52	6ea 0ea		::	78	ő		gel 6 oz Kristina (996 PR&D) rollaway	40 18	0 9ea	10 9	0 4}ea	a 37	10
	blade merchandiserA.56 razor set No. 80	$\frac{73}{52}$	6	13	$1\frac{1}{2}$	a 125 7	6		Kruschen (634 GH) salts	$\frac{12}{22}$	8 5	3 5	2 71	- 1	8 11
	adjustable No. 195 executive	122 18	6 11½ea		9ea	17 32	6		Ladye Jane (735 Laughton) curlers 20/3 hair pins 2 in 83/90	$^{10}_{82}$	3	$\frac{2}{20}$	6	1	6
	shaving brush badger shaving outfits traveller	16 9 18	3}ea	4 2 4	4ea	27 15 31	11		Ledermycin (746 Lederle)		oss	gro			
Delete Delete		10	4ea	4	rea	31	•		drops 10 mlls syrup 2 oz		4ea 10ea		• •	11 16	0 TS
Delete Delete	No. 60								Lenilax (1152 SK)	78 12	0ea 0	3	0	117	9 T
	Glo (876 MP)	13 38	9	6		2	3	*	capsules 5 mgm 25		0	$\frac{13}{48}$	6	7 28	10½ 0
	Glycoids (1152 SK) Gon (1305 WB) tablets Gossamer (164 Brandt) eyelashe Goya (532 Goya)	9 27	0		3	1 3 7	3 0 6		500 Lion (205 Burgess)		0ea	16	3ea		9
	Goya (532 Goya) perfume cologne spray	s 60	0	•	• •	'	6		ointment 11 oz		0	3 8	9	2 4	0
	aerosol 30 cedar wood cologne for men	57 45		28 22	0	9	6		Lip-Slik (876 MP) Litto (1282 VB)	10	6	5	3	1	9
	pre-electric shave lotion soap	33 11	3	16	3	5	6		Cremard ointment Patchoid lotion	20 52	0	13 12	0 0 11	3 7 3	0 11 5
	Granose (535 Granose) cashew cream 6 oz	28	11			2	9		Sebacold lotion special for dry hair	$\begin{array}{c} 23 \\ 38 \\ 13 \end{array}$	8 8 4	9	8 8	5 2	9
	fruit bran 8 oz	52 12	3		::	5 1 1	0 2 11		special for dry nan	22 38	0 8	11 19	0	4	0
	meatless steak 8 oz 16 oz Heath & Heather (588 H&H)	$\frac{20}{32}$	2 . 5 .		• •	3	'i		standard for olly hair	$\frac{13}{22}$	4	6 11	8	2 4	4
	dandelion coffee ½ lb 1 lb	38 68	3 0 .			4			Tintas colour restorer	$\frac{38}{22}$	8	19 11	4 0	6 4	10
	essence 247 slippery elm food $\frac{1}{2}$ lb	34 20	0.			3 2 4 7			royal serum capsules trial full course	$\frac{13}{37}$	3ea 6ea	3	2ea 11ea		
	1 lb 2 lb	38 68	0.		::	4 7 4	3 6 3		seaweed bath Maclean (104 BP)	24	0	5	8	3	
	unmalted 1 lb wholemeal malted 1 lb	38 38				4	3		indigestion tablets	7	7	1	91	1	0

	13		3	51		10		Delete	sunspray oil aerosol						
Macleans (303 County)	26	6	6	$7\frac{1}{2}$	3	6			Sunea sun filter creme 344 346	10 16	6	5 8	3	1 2	9
tooth-paste	28 22	0	7 5	$\frac{1}{6}$		9 11			sun tan oil 343 Noir (Weil) (960 ADP)	70	0	35	ŏ	11	5
Magnoids (1152 SK)	$\frac{15}{12}$	$\frac{1}{0}$	3	9	2 1	9			eau parfumee 2 oz 080 4 oz 081	9 16	6ea 6ea	8	7] ea		6
Maja (317 CS) soap guest	13	0	3	3	2	0			8 oz - 082 16 oz - 083	26 46	3ea 3ea	$\frac{12}{22}$	9½ea 6ea	i 52	6
toilet small	22 32	6	8	$\frac{6}{1\frac{1}{2}}$	3	9			perfume handbag 017 ‡ oz 016	7 14	9ea 9ea	3 7	9ea 2ea		0
Margo's (798 Margolis)	55	0	13	9	8	0			½ oz 015 1 oz 014	26 42	3ea 0ea	$\frac{12}{20}$	9}ea 6ea		0
baby powder 8 oz	$\frac{7}{12}$	$\frac{2}{6}$	3	$\frac{9\frac{1}{2}}{1\frac{1}{2}}$	1 2	3 0			handbag coffret 2 oz 013 SE	75 15	0ea 9ea	36 7	6ea 8ea		0
hair lacquer spray bottle 2½ oz	11	0	5	6	2	0			"Secret de Venus" bath oil ½ oz 0601		9ea	10	lea		0
Mark Vardy (303 County)	16	8	8	4		11			1 oz 061 2 oz 062	37 67	6ea 6ea	18 32	3ea 11ea		0
after shave lotion	51 62	0 8	25 15	8	8	6			4 oz 063 bobine . single 060	127 4	6ea 3ca	62	2ea:	1 8	6
deodorant Cologne pre-electric shave lotlon	55 55	10		11	8	9			hobines . 12 060 Norvex (325 CRC)	50	Oea	24	t ∮ea	102	0
talcum puffer pack Maw's (810 Maw)	48	0 7	24	0	7	6			sanitary towels size 0 1	18 19	6 . 11 .			2 2	0
lanoline cream tube 438.00 jar 438.01 baby pants	24	9	$\frac{4}{12}$	$\frac{3\frac{1}{2}}{4\frac{1}{2}}$	4	6			$\frac{2}{3}$	22 28	11 .			2	6
nylon, lace covered, "Sunday" polythene feeder 4 oz 303.13	44	0			5 2	6			soluble	34 18	6 · 5 ·		• •	3 2	9
Max (855 Mondart) snow spray 24×8 oz	37 92	8	22	61		6			Nulon (1037 Reckitt) hand cream B	16	0	7	91	2	6
Medivet (615 H&M) tablets	156	0	ے ت	$6\frac{1}{2}$	5 19	11	s1s4B		Nutmeat (535 Granose) 10 oz 16 oz	$\frac{22}{32}$	$\begin{array}{c}9\\5\end{array}$.			2	2
Mentholatum (836 Mentholatum)		0	12	6	6	9	81841		Nuttolene (535 Granose) 10 oz	$\frac{22}{22}$	9 .			2 2	2 2
Metamsustac (972 Pharmax)			12	O	0	9			Nycets (992 P&C) pastilles	32 20	$\frac{5}{0}$.	•		3 2	1 6
tablets 7½ mgm 30 250	31	1½ea 0ea		••		1	84B 84B		Old Spice (1131 Shulton) after shave lotion travel						
15 mgm 30 250	37	10lea Oea		::		t	84B		pack 371PM body taleum	43	0	21	0	7	6
Metercal (826 MJ) Miners (876 MP)	71	0		••	8	6			travel pack 393PM Outdoor Girl (876 MP)	35	U	17	ı	6	2
hair lacquer refill	13	6	6	9	1	3		Delete	cream rouge "Hand Magic"	1.5	0	_	0		
lipstlck/nail lacquer duo	9 18	0	9	6	3	6		Delete Delete	Hand Magic	15 12	0	7 6	6 0	2	6 0
mascara autobrush block	21 9	0	10	6	3	6		Detecto	shimmer stick	$\begin{array}{c} 21 \\ 6 \\ 15 \end{array}$	0	10 3	6	1	6 0
nail lacquer frosted	9 15	0	7	6	2	6		Delete	Owbridges (925 Owbridge)	21	0	$\frac{7}{10}$	6 6		6 6
shadow combo stick make-up	7 9 9	6 0 0	3	9	1	6			lung tonic	16 28	5 7	4 7	11		3
super liner	9	0	4 4 7	6 6	1 1 2	6 6			Pabalate (1071 Robins)	41	ΰ	10	$\frac{1}{3}$		5
talcum Misslyn (1169 GS&S)	15	0							tablets with hydrocortisone	2608	0	306	0 '	38v	A 700
Misslyn (1169 GS&S) nail varnish cream pearl	33 47	0	$\begin{array}{c} 16 \\ 23 \end{array}$	6 9	5 7	6 11			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080	2608 9	0 веа	396			4 TS
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH)	33	0	16	6	5 7	6			Padisha (Weil) (960 ADP) 500	$\begin{smallmatrix} 9\\16\end{smallmatrix}$	веа веа	4	7½ea 0½ea	19 133	6
Misslyn (1169 GS&S) nail varnish cream pearl remover	33 47	0	$\begin{array}{c} 16 \\ 23 \end{array}$	6 9 0	5 7 2	6 11 11			Padisha (Weil) (960 ADP) eatt parfitmee 2 oz 080 4 oz 081	9	веа веа Зеа Зеа	4 8 12 22	7½ea 0½ea 9½ea 6ea	19 133 152 92	6 6 6
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH)	33 47 18	0 6 0	16 23 9	6 9 0	5 7 2	6 11 11			Padisha (Weil) (960 ADP) eatt parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 1 oz 015	$^{9}_{16} \\ ^{26}_{46}$	веа веа Зеа	4 8 12	7½ea 0½ea 9½ea 6ea 9ea 2ea	19 133 152 92 16 30	6 6 6
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 M H) (distributors 634 G H) herbs Mony (862 Morny) luxury mist Blue Carnation, Pink Lilae, Sandalwood, French Fern,	33 47 18 10 24	0 6 0	16 23 9	6 9 0	5 7 2	6 11 11			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 082 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 2 oz 015 1 oz 014 2 oz 013	$\begin{array}{c} 9 \\ 16 \\ 26 \\ 46 \\ 7 \\ 14 \end{array}$	6ea 6ea 3ea 3ea 9ea 9ea	4 8 12 22 3 7	7½ea 0½ea 9½ea 6ea 9ea	19 133 152 92 16 30 153	6 6 6 6 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Llly of the Valle; Gardenia	33 47 18 10 24	0 6 0	16 23 9	6 9 0	5 7 2	6 11 11			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 016 ½ oz 016 ½ oz 016 1 oz 014	9 16 26 46 7 14 26 42 75 15	fiea fiea fiea fiea fiea fiea fiea fiea	4 8 12 22 3 7 12 20	7½ea 0½ea 9½ea 6ea 9ea 2ea 9½ea 6ea	19 133 152 92 16 30 153 85	6 6 6 6 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation. Pink Lilac, Sandalwood. French Fern, June Roses, Llly of the Valle; Gardenia Mos-tox (814 M&B) size 1	33 47 18 10 24	0 6 0	16 23 9	6 9 0 8 11	5 7 2 1 3	6 11 11 5 3			Padisha (Weil) (960 A DP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 1 oz 014 2 oz 013 handbag coffret 8E "Secret de Venus" bath oil 1 oz 061 1 oz 061	9 16 26 46 7 14 26 42 75 15	6ea 6ea 3ea 3ea 9ea 9ea 6ea 0ea	4 8 12 22 3 7 12 20 36	7½ea 0½ea 9½ea 6ea 2ea 9½ea 6ea 6ea 1ea	19 133 152 92 16 30 153 85 150 32	6 6 6 6 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Llly of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 12	33 47 18 10 24 y. 40 52	0 6 0 8 7	16 23 9	6 9 0 8 11	5 7 2 1 3	6 11 11 5 3			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 17 1 oz 016 2 oz 015 1 oz 014 2 oz 015 Secret de Venus' bath oil 1 oz 0601 1 oz 0611 2 oz 062 4 oz 063	9 16 26 46 7 14 26 42 75 15	fea fea 3ea 3ea 9ea 9ea 0ea 9ea 6ea 6ea 6ea	4 8 12 22 3 7 12 20 36 7 10 18 32 62	7½ea 0½ea 9½ea 6ea 9ea 2ea 9½ea 6ea 1ea 3ea	119 133 152 92 16 30 153 85 150 32 42 75	6 6 6 6 0 0 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilae, Sandalwood, French Fern, June Roses, Llly of the Valley Gardenia Size 2 Mu-Cron (657 IL) tablets 12 Mum (1113 S&B) for men Mylodex 1 (195 Brook Parker)	33 47 18 10 24 y. 40 52 20 34	0 6 0 8 7	16 23 9 2 6	6 9 0 8 11	5 7 2 1 3	6 11 11 5 3			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 17 dz 016 ½ oz 061 1 oz 061 2 oz 062 4 oz 063 bobine single 060 boblines 12 060 boblines 12 060	9 16 26 46 7 14 26 42 75 15 3 20 37	fea fea 3ea 3ea 9ea 9ea 0ea 9ea 9ea 6ea 6ea	4 8 12 22 3 7 12 20 36 7 10 18 32	7½ea 0½ea 9½ea 9ea 2ea 9½ea 6ea 1ea 3ea 11ea 12ea 0½ea	119 133 152 92 16 30 153 85 150 32 42 75	66666000000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Fink Lilac, Sandalwood, French Fern, June Roses, Lily of the Valle; Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets Mum (1113 S&B) for men Mylodex 1 (195 Brook Parker) tablets Mysteclin F (1176 Squibb)	33 47 18 10 24 y, 40 52 20 34 3	0 6 0 8 7	16 23 9 2 6	6 9 0 8 13	5 7 2 1 3	6 11 11 5 3			Padisha (Weil) 960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 1 oz 016 1 oz 014 2 oz 013 handbag coffret "Secret de Venus" bath oil 1 oz 061 1 oz 063 1 oz 060 1 oz 063 1	9 16 26 46 7 14 26 42 75 15 3 20 37 67 127	6ea 6ea 3ea 9ea 9ea 0ea 9ea 6ea 6ea 6ea 6ea	4 8 122 22 3 7 12 20 36 7 10 18 32 62 2	7½ea 0½ea 9½ea 9ea 2ea 9½ea 6ea 1ea 3ea 11ea 12ea 12ea 4½ea	119 133 152 92 16 30 153 85 150 32 42 75 135 255	66666000000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation. Pink Lilae, Sandalwood. French Fern, June Roses, Lily of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 y, 40 52 20 34 3 8	0 6 0 8 7	16 23 9 2 6	6 9 0 8 1 1 2	5 7 2 1 3	6 11 11 5 3 0 0 6 0 6	Ts T8		Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 014 2 oz 013 handbag coffret SE Secret de Venus' bath oil 2 oz 062 4 oz 063 bobline single 060 boblines 12 060 Pal (438 ER) razor set Palmolive (280 CP) shaving stick refill	9 16 26 46 7 14 26 42 75 15 3 20 3 67 127 4 50 47	6ea 6ea 3ea 3ea 9ea 9ea 0ea 6ea 6ea 6ea 6ea 6ea 8	4 8 12 22 3 7 12 20 36 7 10 18 32 62 24	7½ea 0½ea 9½ea 9ea 2ea 9½ea 6ea 1ea 3ea 11ea 12ea 12ea 4½ea	19 133 152 192 16 30 153 85 132 42 75 135 255 18 102 6 1	66666000000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Llly of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 10 24 24 20 34 3 8 12	0 6 0 8 7 0 0 6 0 0ea 1ea 0ea	16 23 9 2 6	6 9 0 0 8 13 1	5 7 2 1 3 1 5 4 6 6 3 5 1 2 1 8	6 11 11 5 3 0 0 6 0 6			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 2 oz 013 handbag coffret 8E "Secret de Venus" bath oil 2 oz 061 2 oz 061 2 oz 061 4 oz 063 bobline single 060 bobline single 060 Pal (438 ER) razor set Palmolive (280 CP) shaving stick refill Panets (1305 WB) tablets 16 Papaverine (708 Knoil)	9 16 26 46 47 14 26 42 75 15 3 20 67 127 45 50 47	6ea 6ea 3ea 9ea 9ea 9ea 9ea 6ea 6ea 6ea 8	4 8 12 22 3 7 12 20 36 7 10 18 32 62 24 11	7½ea 0½ea 9½ea 6ea 9½ea 6ea 18ea 11ea 12ea 12ea 11ea 11ea	119 1333 152 92 16 30 1853 185 135 255 135 135 102 6 1	66666000000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Lily of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 10 24 24 20 31 3 8 12	0 6 0 8 7 0 6 0 Oea lea Oea 0	16 23 9 2 6	6 9 0 8 1 ³ / ₄ 0	5 7 2 1 3 1 5 4 6 6 3 5 1 1 2 1 8 1 5	6 111 111 5 3 0 0 6 0 6			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 16 oz 016 ½ oz 018 2 oz 018 ½ oz 060 1 oz 060 2 oz 060 Pal (438 ER) razor set Palmotive (280 CP) shaving stick refill Panets (1305 WR) tablets Papaverine (708 Knoll) tablets 20	9 16 26 46 7 14 26 42 75 15 3 20 3 67 127 4 50 47	6ea 6ea 3ea 3ea 9ea 9ea 0ea 6ea 6ea 6ea 6ea 6ea 8	4 8 12 22 3 7 12 20 36 7 10 18 32 62 22 24	7½ea 0½ea 9½ea 6ea 9½ea 6ea 18ea 11ea 12ea 12ea 11ea 11ea	119 1333 152 92 16 153 85 150 32 42 75 135 1255 18 1102 6 1	66666000000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilae, Sandalwood, French Fern, June Roses, Lily of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 12 Mum (1113 S&B) for men Mylodex 1 (195 Brook Parker) tablets 100 Mystellin F (1176 Squibb) paediatric 100 miss syriip My Tan (467 Fleet) (distributors 128 Biometica) after shave lotion Nasofen (147 Boots) nasal drops 1 20 Z	33 47 18 10 24 24 20 34 3 8 12 90 24	0 6 0 8 7 0 6 0 Oea lea Oea 0	16 23 9 2 6	6 9 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 7 2 1 3 1 5 4 6 3 5 5 1 2 1 8 1 5 3	6 111 111 5 3 0 0 6 0 6			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 16 oz 016 ½ oz 060 1 oz 061 1 oz 061 2 oz 062 4 oz 063 bobine single 060 bobines 12 060 Hal (438 ER) razor set Palmolive (280 CP) shaving stick refill Panets (1305 WB) tablets 20 Parabal (1320 WP) tablets 20 Parabal (1320 WP)	9 16 26 46 7 14 26 42 75 15 3 3 67 127 47 10 18	6ea 6ea 3ea 9ea 0ea 0ea 6ea 6ea 6ea 6ea 6ea 6ea 6ea 6ea 0ea 0ea	4 8 12 22 3 7 12 20 36 7 10 18 32 62 2 4 11 2 2 22	7½es 0 ½es 0 6es 1 6es 1 2es 2 2es 1 1 es 1 2es 2 4 ½es 1 1 6	119 133 152 92 16 30 153 85 150 32 42 75 135 135 14 255 14 102 6 1 1 2	66666600000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Fink Lilac, Sandalwood, French Fern, June Roses, Lily of the Valle; Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 100 Mysteclin F (1176 Squibb) paediatric 10 mits syrip My Tan (467 Fleet) (distributors 128 Biometica) after shave lotion Nasofen (147 Boots) nasal drops Natusol (695 TK) baby cream Neo-Medorne Veriderem (1263 Up	33 47 18 10 24 40 52 20 34 3 8 12 90 24 15 jojohu)	0 6 0 8 7 0 6 0 0 0ea 1ea 0ea 0 0 4	16 23 9 2 6	6 9 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 7 2 1 3 1 5 4 6 6 3 5 1 1 2 1 8 1 5	6 111 111 5 3 0 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Т8		Padisha (Weil) (960 ADP) eau parfumee . 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag . 017 1 oz 016 1 oz 016 1 oz 016 1 oz 014 2 oz 013 handbag coffret "Secret de Venus" bath oil 1 oz 0601 1 oz 0601 2 oz 060 2 oz 03 8 EQUAR SER) . 060 Pai (438 ER) . 12 Pamolive (280 CP) shaving stick refill Papaverine (708 Knoll) tablets	9 16 26 46 7 14 26 42 75 15 3 20 37 127 4 4 50 47 10 18 22 22 90 330	6ea 6ea 9ea 9ea 9ea 6ea 6ea 6ea 6ea 6ea 6ea 6ea 6ea 6ea 6	4 8 12 22 3 7 7 12 20 36 7 10 11 8 32 2 24 11 2	7½es 0 ½es 0	119 133 152 92 16 30 153 155 150 32 42 75 135 155 18 1102 6 1 2 3 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Fink Lilac, Sandalwood, French Fern, June Roses, Lily of the Valle; Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 100 Mystoclin F (1176 Squibb) paediatric 100 mis syrup 60 mis My Ian (467 Fleet) (distributors 128 Biometica) after shave lotion Nasofen (147 Boots) nasal drops Natusol (695 TK) baby cream No-Medrone Veriderm (1263 Up 5 gm Neoran (982 Pierce)	33 47 18 10 24 24 24 29 31 3 8 12 90 24 15 15 15 10 7	0 6 0 8 7 6 0 6 0 0ea lea 0ea 0 0 4 0ea	16 23 9 2 6 5 17	6 9 0 8 1 ½	572 133 15466 355 1218 153	6 11 11 11 5 3 0 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 2 oz 013 handbag coffret 8 exeret de Venus'' bath oil 2 oz 060 2 oz 061 2 oz 061 2 oz 061 2 oz 060 6 bobine single 060 bobline single 060 bobline single 060 Pal (438 ER) razor set Palmolive (280 CP) shaving stick refill Papaverine (708 Knoll) tablets 250 Parabal (1320 WP) tablets 100 Pargonyl (1087 Roussel) capsiles 250 mgm 16 Parnate (1153 SKF) tablets 50	9 16 266 46 426 426 4275 15 3 20 677 127 4 50 47 10 18 222 930 330 40 14	6ea 6ea 3ea 3ea 9ea 9ea 9ea 6ea 6ea 6ea 6ea 6ea 0ea 9ea 0ea 9ea 0ea 1 9 . 6ea 9ea 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 8 12 22 3 7 12 20 36 7 10 18 32 62 2 4 11 2 2 22	7½es 0 ½es 0 6es 1 6es 1 2es 2 2es 1 1 es 1 2es 2 4 ½es 1 1 6	119 133 152 92 91 16 30 32 153 85 150 32 42 75 135 255 8 8 1102 6 1 2 3 3 4 4 4 4 4 5 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1	66666600000000000000000000000000000000
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilae, Sandalwood, French Fern, June Roses, Lily of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 12 Mum (113 S&B) for men Mylodex 1 (195 Brook Parker) tablets 100 Mysteclin F (1176 Squibb) paediatrie 10 mils syring 60 mils My Tan (467 Fleet) (distributors 128 Biometica) after shave lotion Nasofen (147 Boots) nasal drops ½ oz Natusol (695 TK) babby cream Neo-Medrone Veriderm (1263 Up. Seman (982 Pierce) liquid 1000	33 47 18 10 24 40 52 20 34 3 8 12 90 24 15 jojohu)	0 6 0 8 7 0 6 0 0 0ea 1ea 0ea 0 0 4	16 23 9 2 6 5 17	6 9 0 0 8 1 ½	572 133 15466 355 1218 153	6 111 111 5 3 0 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Т8		Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 16 oz 016 ½ oz 018 1 oz 016 ½ oz 018 8 oz 061 2 oz 061 2 oz 060 2 oz 061 2 oz 062 bobine single 060 bobine single 060 bobines 12 Palmotive (280 CP) shaving stick refil Papaverine (708 Knoll) tablets 20 Parabal (1320 WP) tablets 250 Pargonyl (1087 Roussel) capsules 250 mgm 16 Parnate (1153 SKF) tablets 50 Parstelin (1153 SKF) tablets 500 Parstelin (1153 SKF) tablets 500 Parstelin (1153 SKF) tablets 500	9 16 26 46 47 14 26 42 75 15 3 30 37 67 127 4 50 47 18 22 22 90 330 40 40 40 40 40 40 40 40 40 4	6ea 6ea 3ea 3ea 9ea 9ea 0ea 6ea 6ea 3ea 0ea 6ea 0ea 6ea 0ea 6ea 19 . 6ea 9ea 0ea 4ea 0ea	4 8 122 222 3 7 12 220 36 7 10 18 32 2 24 11 2 2 82 3 35	7½es 0½es 0½es 6ea 2en 9½es 6ea 1ea 3en 1lea 12ea 11ea 11ea 11ea 11ea 11ea 11ea 11	119 133 152 92 16 30 153 85 150 33 42 75 135 135 135 142 135 142 135 142 135 143 144 145 145 145 145 145 145 145	6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation. Pink Lilac, Sandalwood. French Fern, June Roses, Lily of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 40 52 20 34 3 8 12 90 24 15 john) 7 40	0 6 0 8 7 0 6 0 Oea 1ea Oea 0 4 Oea Oea	16 23 9 2 6 5 17	6 9 0 0 8 1 ½	572 13 1546 35 1218 153 2	6 11 11 5 3 0 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Т8		Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 017 1 oz 016 2 oz 061 2 oz 061 2 oz 060 2 oz 061	9 16 266 46 426 426 4275 15 3 20 677 127 4 50 47 10 18 222 930 330 40 14	6ea 6ea 3ea 3ea 9ea 9ea 9ea 6ea 6ea 6ea 6ea 6ea 0ea 9ea 0ea 9ea 0ea 1 9 . 6ea 9ea 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 8 122 22 3 7 7 12 220 366 7 7 10 13 32 62 2 24 11 2 2 82 3 3	7½es 0 ½es 0	119 133 152 92 16 30 153 85 150 33 42 75 135 135 135 142 135 142 135 142 135 143 144 145 145 145 145 145 145 145	6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation. Pink Lilac, Sandalwood. French Fern, June Roses, Llly of the Valley Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 24 29 31 3 8 12 90 24 15 15 15 10 10 20 31 40 31 40 40 40 40 40 40 40 40 40 40 40 40 40	0 6 0 8 7 0 6 0 0ea 1ea 0ea 0 4 0ea 0	16 23 9 2 6 5 17	6 9 0 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	57 2 1 3 1 5 4 6 3 5 1 2 8 1 5 3 2	6 11 11 5 3 0 0 6 0 6 0 6 0 7 0 9 8 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 1 0	T8 T8		Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081 8 oz 082 16 oz 083 perfume handbag 16 oz 016 2 oz 061 1 oz 061 1 oz 061 2 oz 062 4 oz 063 bobine single 060 bobines 12 060 Fal (438 ER) 12 Palmolive (280 CP) shaving stick refill Panets (1305 WB) tablets 20 Parabal (1320 WP) tablets 20 Parabal (1320 WP) tablets 100 Pargonyl (1087 Roussel) capsules 250 mgm 16 Parnate (1153 SKF) tablets 50 Parstelin (1153 SKF) tablets 50 Parstelin (1153 SKF) tablets 50 Parstelin (1153 SKF) tablets 50 PAS (572 HC) sodium tablets enteric coating 0.5 gm 500	9 16 26 46 47 14 26 475 15 3 20 37 127 47 10 18 22 22 90 330 40 142 142 142	6ea 6ea 9ea 9ea 9ea 9ea 6ea 6ea 6ea 9ea 9ea 9ea 19e 9e 9ea 19e	4 8 122 22 3 7 12 220 366 7 10 11 8 32 2 2 4 11 2 2 82 3 35 5	7½es (0½es (0))))))))))))))))))))))))))))))))))))	119 133 152 92 16 30 153 185 150 135 135 135 135 142 75 18 19 10 11 11 12 13 13 14 15 16 16 16 16 16 16 16 16 16 16	6 6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0
Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Llly of the Vallet, Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets	33 47 18 10 24 24 20 31 3 8 12 90 24 15 john) 7 40 30 30 30 150	0 6 0 8 7 0 6 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0	16 23 9 2 6 5 17 45 3	6 9 0 0 8 1 1 2 0	57 2 1 3 1 5 4 6 6 3 5 1 2 1 8 1 5 3 2 70 4 3 1 6	6 11 11 5 3 0 0 6 0 6 0 6 0 7 0 9 8 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 9 1 0 1 0	T8 T8 T84A MC		Padisha (Weil) (960 ADP) eau parfumee 2 oz 080	9 16 26 46 42 7 14 26 47 15 3 20 30 37 127 47 10 18 22 22 90 330 40 14 14 142 20 190 190 190 190 190 190 190 19	6ea 6ea 3ea 3ea 9ea 3ea 9ea 9ea 6ea 6ea 6ea 6ea 6ea 0ea 0ea 19	4 8 122 22 3 7 12 220 366 7 10 11 8 32 2 2 4 11 2 2 82 3 35 5	7½es (0½es (0))))))))))))))))))))))))))))))))))))	119 133 152 92 16 30 153 85 150 32 42 75 75 135 14 2 3 30 11 12 3 30 15 15 15 16 16 16 16 16 16 16 16 16 16	6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0
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	$rac{2L/T}{2BL/C}$				799	6	gross
	2BL/2				899	6	Robinson's (285 Colman) Delete Sicilian lemon juice 12½ oz
	2BL/′. III					6	high protein cereal 19 3 2 0
	reflex IB					0	Robitussin (1071 Robins)
	Paximat \$ (1017 PO) projecto		• • •		14.0	•	Rolleiflex (637 Hunter) camera
	electric slide with 85 mm f/2.8 iens	503	4ea		755	0	with f/2.8F Zeiss Planar lens 1695 8ea 413 7ea 2957 1 with f/2.8F Xenotar lens 1550 2ea 385 2ea 2755 6
	Paxina (884 NB)	800	2014			0	ever ready case 80 8ca 19 8ca 140 6 camera with 3.5F Pianar ions 1463 2ca 356 8ca 2551 6
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	tablets 2 Persomnia (70 Aspro)	5 18	0	4 1	. 2	6	Sausalatas (535 Granose) 10 oz 24 6 2 4
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Dolote	Pethidine (394 Duncan) 25)					16 oz 32 5 3 1 8eholl's (Dr.) (1108 SMC)
	tablets, 25 mgm 10		0			9plsiDD 0plsiDD	anti-pressure pad . 12 0 1 6
	50 mgm 10	72	0		9	0plslDD	bath cubes pine (6) 15 0 7 6 2 6 heel grip (pair) 6 8 4 10 $\frac{1}{2}$
	Pethidine (1074 Roche) 50		0			3pislDD	Secret Magic (876 MP) refill
	tablets 25 mgm 10 50		0		4 21	9p1s1DD 0p1s1DD	Secrosteron (179 BDH)
	50 mgm 10 50	72	0			0p1s1DD 3p1s1DD	tablets
	Phensic (104 BP)	15	0	3 9	1	11	500 221 0ea 331 6
	Pholtex (1061 Riker)	31	2	7 9	_	0	syrup 3 oz 60 0 15 0 8 9 tablets 30 72 0 18 0 10 6
	cough suppressant 2 o		0 4ea		8 74	0 †	Sheer Bliss (876 MP) 12 0 6 0 2 0
	Phosferine (104 BP)			3 9		·	Shurzine (1133 Shurzine) ointment 14 0 3 6 2 0
	liquid	$\frac{15}{33}$	0	8 3	4	3	8i Bon (150 Bourjois)
	tablets	15 33	0	3 9 8 3		11	cubes (6) 9224 34 8 17 4 6 0
	Phyliosan (104 BP)	34 55	10 · · · 9 · · ·		3	9	dusting powder 9226 77 0 38 6 13 6 soap toilet (3) 9227 46 6 11 7 6 9
	PIR (000 DIS)	116	3		4.0	6	taicum
	Pitco (983 Pifco) infra-red lamp102				ea 84	0	suppositories 6 41 0 4 7
	vibratory massager 105 Pln Quick (631 Hudnut)	3 47 28		11 7 14 1	ea 75 4	7	50 240 0 26 6 tablets
Delete	Pitressin (938 PD) ampoules	0·5 mil 1	00				8ilvikrin (303 County) hair cream 12 9 6 $4\frac{1}{2}$ 2 0
	Placentubex (451 F&J) Plastabook (1247 TDC)	195	0	97 6	32	6	19 2 9 7 3 0
	first aid dressings 2½ doz Platine (350 Dana)	50	0		2	6	28 8 14 4 4 6
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	(distributors 327 WC) eve shadow	6	6	3 3	1	0	bronchlai 12 0 3 0 1 9
	mascara and pencil sets	13	Ŏ	6 6		0	cherry linetus 12 0 3 0 1 9
	Pride (487 Furman) hair lacquer spray	21	6	10 9	3	9	Dilty Duckling
	Primoids (1152 SK)	9	0	2 3		3	T.C.L 12 0 3 0 1 9 8 kenna (1152 SK) pastilles 9 0 2 3 1 3
	Pro (721 LC) toothbrushes adult	20	0		2	6	8mith Kendon (1152 SK)
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	Respiran (690 Keldon)		8ib	8			gross
	inhaler refill	14 11	0ea 10ea		21 17	9	Soothe (1262 UL) cream
	Rheusalate (1341 WFL)			9 0		6	8 ouchets (695 TK) liquorice and menthol pellets 8 4 2 1 1 3
	paste 40 gr Rinurel (1310 WW)	n 32	0	8 0	4	6	spa (1167 Spa) sets ladies
	tablets 3		0 0ea	18 0 8 9	10 ea 61	6	Rosalind 65 6 16 4 9 6 8parklets (183 BOC)
	Rissol-nut (535 Granose) 16 o		5 ···	0 9		1	syphons De Luxe 867 0 105 8 105 0



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Globemaster	927 0 113 0 112 6	Thoracin (769 LH) ointment	
Hostmaster	618 0 75 4 75 0	1 oz Thram (506 Gerhardt) trial	30 0 7 6 4 2 76 0 9 6
8parkling Spa (450 Farthlng) formula 3	21 0 5 3 3 6	Tofranil (501 Geigy)	
Spontex (1174 Sponcel) car sponge ex/large C/2	40 7 10 12 5 11	tablets 10 mgm 60 250	110 0 13 9 †s4B 430 0 53 9 †s4B
Sporostacin (922 Ortho) cream with applicator	180 0 40 0 25 10	25 mgm 50	1580 0 197 6 †s4B
tube only	160 0 40 0 23 4	200	710 0 88 9 †s4B
8porti IV (645 Ilford) camera case	342 0 86 0 49 8 120 0 30 0 17 5	Transid (394 DF)	3300 0 412 6 †s4B
gift pack Spree (955 Pepsodent)	46 Sea 11 Oea 81 O	tablets 100 Tress (525 Golden)	120 0 15 0 10 0 5 0 1 8
fruit squash sachet	29 3 3	Trill (525 Golden) tube Trio (285 Colman)	15 0 7 6 2 6
Steiner (1188 Stelner)	gross	fruit squash	31 0 3 3
hand milk tube 8telabid (1153 SKF)	21 0 10 6 3 6	Triotussic (1303 Wander) syrup 4 oz	60 0 15 0 8 19 †87
tablets 30 250	144 0 36 0 21 0 †s4B 95 0ea 23 9ea166 3 †s4B	20 oz tabléts 50	256 0 64 0 37 4 †s7 64 0 16 0 9 4 †s7
Steradent (1037 Reckltt)	28 0 6 10 3 9	250	272 0 68 0 39 8 187
Sterispon (34 A&H) gelatla spor No. 2 20×10×0·1 cm 1	100 0 12 6	Tripectol (1341 WFL) linetus 4 oz	34 0 4 3
No. 4 10×10×0·5 cm 6 Stratton (735 Laughton)	46 4ea 69 9	20 oz 80 oz	156 0 480 0
Empress Lipview 277/EMB Streptets (1352 Wyeth) 20	21 0 43 0 4 10	Trivexin (208 BW) vet 100 mils	450 0 50 0
Streptotriad (971 P&MB)	7 0 1	Delete 250 mils Tycoon (705 Kirby)	
granules for 1½ oz 25	66 0 8 3 pls4H	after shave lotlon	32 0 16 0 6 0
100 500	230 0 28 9 pls4B 1020 0 127 6 pls4B	deodorant halr dressing	32 0 16 0 6 0 32 0 16 0 6 0
styptol (708 Knoll) tablets 20	36 0 9 0 4 9 s1	medicated shampoo pre-electric shave lotion	32 0 16 0 6 0 32 0 16 0 6 0
200	25 6ua 6 4lca 40 4l s1	taleum powder	32 0 16 0 6 0
Sunset (1205 S & C) electric blankets		presentation packs of any two	68 0 34 0 12 6
Little Gem	4! ?ea 10 9ea 72 9 55 Sea 14 4ea 96 8	Urelim (1305 WB) tablets 0.5 gm 100	26 0ea 6 6ea 45 6
type SS	53 Sen 13 Oea 88 O 8ea 17 3ea116 6	500 Uvistat (1305 WB)	116 8ea 29 2ea204 2
D3	2ea . 10ea120 6	creani 50 gm	60 0 15 0 8 9
VR1 VR2	4 10ea 15 10ea 106 10 7 8ea 21 5ca 144 5	Valderma (343 DH) talcum powder	16 5 8 2½ 2 6
VR3 HS/3	90 1ea 22 0ea 48 6 83 4ea 20 4ea 137 4	Vanquin (938 PD) suspension 1 oz	56 0 14 0 8 2
8untax (324 Crookes) vet	105 2ea 25 8ea173 2	Vapex (695 TK)	720 0 180 0 105 0
100 mlls Sure Shield (549 Guest)	264 0 33 0	inhaler	14 0 3 6 2 0
lozenges iodised throat	8 4 2 1 1 3	medicated rub pastilles	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
pastilles glycerin & thymol	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Delete lozenges Vaseline (256 CPL)	
8wandown (1218 HT) trio pack	12 4 6 2 2 1	medicated shampoo V-Cil-K Sulpha (413 Lllly)	28 10 7 21 3 11
8ylvia (339 CG)	80 0 0 0	paediatric suspension 60 mils	5 10ea 8 9 †s4BTS
sanitary towels, slze 0 slze 1	10 11 1 21	Vecortenol (262 CIBA) (vet) 100 mgm 4 mils	11 4ea 17 0TSVPO
size 2	21 6 2 4 25 3 2 9	250 mgm 10 mils Veno's (104 BP)	25 10ea 38 9TSVPO
size 3 Syrup B.12, Vitavel brand	31 3 3 5	cough mixture Viacutan (1305 WB) tulle 10	31 2 7 9½ 4 0 42 0 10 6 6 1½
(1285 Vitamins) 6 oz Tabloid (208 BW)	45 0 5 $7\frac{1}{2}$	30	42 0 10 6 6 11 72 0 18 0 10 6
cyclobarbitone gr 3 100	54 0 6 9 †s1s4A	Villescon (154 B) liquid 4 oz	58 0 14 6 8 5 ½
500 1000	432 0 54 0 †s1s4A	Virugon (97 Bayer) tablets 48	
5000 pethidine HCI 25 mgm 100		500	12 0ea 3 0ea 21 0 † 117 6ea 29 5ea 205 8 †
500 50 mgm 100	168 0 21 0 †s1DD	Visa (Piguet (1201 Supervite)) bath oil 1 oz	13 0ea 6 6ea 26 9
500	330 0 41 3 †s1DD	Delete Vodex (695TK) lozenges Voltage (385 DG)	
Tabu (350 Dana)		bath essence	111 0 55 6 18 6
perfume trial	6 3ea 3 1e a 12 6	concentrate dusting powder	126 0 63 0 21 0 150 0 75 0 25 0
tollet soap (3) 500	10 6ea 5 2ea 21 0	perfume Warfarin (1305 WB)	315 0 157 6 52 6
Tace (838 MN) tablets 30	164 0 20 6 †s4B	sodium tablets 20 mgm 50 Wet and Set (220 CALG)	360 0 45 0
Talika (1169 GS&S)	·	halr curling tlssues	17 6 8 9 2 11
eyelash grower	48 0 24 0 7 11 96 0 48 0 15 11	Whisper (1326 Whisper) setting mist sachet	6 0 3 0 1 3
Tan (388 Cussons) 5481		aerosol Wyamin (1352 Wyeth)	33 0 16 6 5 6
Tanderil (501 Geigy) tablets 100 mgm 50		capsules 25	38 0 4 3
250 1000	65 Sea 16 5ea114 11 †s1s4A 256 9ea 64 2½ea449 4 †s1s4A	Xylotox (970 PM) ointment 15 gm	40 0 5 0
Taractan (1074 Roche) ampoules 30 mgm		Yardley (1355 Yardley)	
50	43 4ea 10 10ea 75 10	hand cream alrflow1450	47 0 23 6 7 10
250	90 0 22 6 13 1} 30 0ea 7 6ea 52 6	perfumed deodorant stick	19 6 9 9 3 3
Tee-up (438 ER) pre-shave lotion	57 0 28 6 9 6	perfumed roll-on	27 0 13 6 4 6 21 0 10 6 3 6
Tetrazets (837 MSD) 12		Yeast-Vite (104 BP)	15 0 3 9 1 11 33 0 8 3 • 3
Thermos (1226 Thermos) vacuum jars 607		Yex (535 Granose) 3 oz 8 oz	15 9 1 6
608 620	3 96 1	Young Set (876 MP)	
8:	l 103 2	medicated cream	24 0 6 0 3 6
jugs 68	14 9	Zap (1070 Windsor) pumice soap 3000	56 10
3- 5-	4 43 8	m 14- (1150 077)	gross 12 0 3 0 1 9
540 4	46 2	Zibellne (Weil) (960 ADP)	12 0 0 1 9
	5 49 8		
450	5 49 8 2 57 4	eau parfumée 2 oz 080 4 oz 081	
	5 49 8 Q 57 4 9 85 2 Q 102 11	eau parfumée 2 oz 080	16 6ea 8 0 ea 33 6 26 3ea 12 9 ea 52 6

perfume handbag		017	7	9ea	3	9ea	16	0
	ł oz	016	14	9ea	7	2ea	30	0
	i oz	015	26	3ea	12	9lea		ŏ
	ĺoz	014	42	0ea		6ea		
					20			0
	2 oz	013	75	0ea	36	6ea1		0
handbag coffret		\mathbf{SE}	15	9ea	7	8ea	32	0
diffusette	1 oz	016D	17	веа	8	веа	35	0
	₹ oz	015D	29	0ea	14	2ea	58	Ŏ
refill	i oz	015R	26	0ea	12	8ea	52	8
	4 oz	012	135	0ea		10ea 2		ŏ
de luxe bottle in								
			90	0ea	43	10ea 1	80	0
"Secret de Venus	~ bath	oil						
	₹ oz	060B	20	9ea	10	1ea	42	0
	1 oz	061	37	6ea	18	3ea	75	0
	2 oz	062	67	6ea	32	11ea1		ŏ
	4 oz	063	127					
habina				веа	62	2ea2		0
bobine	single	060	4	3ea	2	0∮ea	8	6
bobines	12	060	50	0ea	24	4lea	102	0
Zief (887 New Era)						-		
tablets			00	0	10	0	4.0	
tablets			68	8	17		10	0
			171	4	42	10	25	0

AMENDMENTS TO KEY TO SUPPLIERS:

- (97 Bayer) = BAYER PRODUCTS (DIVISION OF WINTHROP GROUP) LTD., Winthrop House, Surbiton, Surrey.
- (164 Brandt)=R. BRANDT & CO. (MANUFACTURING), LTD., 25 Sheldon Road, London, N.W.2. Gladstone 9757.
- (183 BOC)=BRITISH OXYGEN CO., LTD., Sparklets Works, Queen Street, London, N.17. Tottenham 0881. (220 CALG) = C.A.L.G. ENTERPRISES, LTD., 34 Upper Brook Street, London, W.1. Hyde Park 0148.
- (257 Chilton)=CHILTON ELECTRIC PRODUCTS, LTD., Hungerford. Berks. Hungerford 237.
- Crater) = CRATER PRODUCTS, LTD., Lower Guildford Road, Knaphill, Woking, Surrey. Brookwood 2571.
- (325 CRC)=C. R. CROSSKILL & SONS, LTD., Calvert Works, Norwich. Norwich 27101.
- (385 DG) = DOROTHY GRAY, LTD., 565 Kingston Road, London, S.W.20. Liberty 3471
- (461 FL)=FIBRENYLE, LTD., 157 Dukes Road, London, W.3. Acorn
- (467 Fleet) = FLEET LABORATORIES, LTD., 675 Mount Pleasant Road, Toronto 7, Ontario, Canada.

 Delete (605 Hill's)=HILL'S BALSAM, LTD.,
- (605 Hill's) = HILL'S PHARMACEUTICALS, LTD., Spring Bank Works, Nelson, Lancs. Nelson 65321.
- (658 Insulex) = INSULEX, LTD., 67 Westbourne Grove, London, W.2 Park 3424.
- (826 MJ)=MEAD JOHNSON, LTD., 10 Upper Grosvenor Street, London, W.1. Grosvenor 6944.
- (861 MPC)=MORGANS POMADE CO., LTD., 122 Maidstone Road, Sidcup, Kent. Foots Cray 7878.

 (996 PR&D)=PLASTIC RESEARCH AND DEVELOPMENT, LTD., 8 Park Road, London, N.W.1. Paddington 2172.
- (1063 Rimmel) = RIMMEL, LTD., 62 Baker Street, London, W.1. Hunter
- (1115 SI)=SCHICK INCORPORATED (UK), LTD., 86a Brook Street, London, W.1. Grosvenor 5559.
- (1158 Sodastream)=SODASTREAM, LTD., 22 Oval Road, London, N.W.1. Gulliver 4421. 7 TDC) = TRICO DEVELOPMENTS CO., LTD., Great West Road, Brentford, Middlesex. Isleworth 3464.
- (1248 Trevena)=TREVENA, LTD., 20 Grosvenor Place, London, S.W.1. Sloane 0676.
- $(1274~\mathrm{VDL}) = \mathrm{V\text{-}DEVELOPMENT},~\mathrm{LTD.},~22~\mathrm{Clifton}~\mathrm{Road},~\mathrm{London},~\mathrm{W.9}.~\mathrm{Cunningham}~0701.$
- (1326 Whisper) = WHISPER COSMETICS, 175 Bow Road, London, E.3. Advance 5546.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.

A=Advanced. R=Reduced.

Entries new this week a	ire marl	ked thu	18:)
● Clean Lawn (1037 Reckitt)				
weedkiller	16 0		2	0
	28 0		3	6
Clean Leaf (1037 Reckitt)			-	
insecticide	28 0		3	6
Denisol (1106 S) paste	20 6	5	1 3	0
Detigon (452 FBA)				•
linctus 4 oz	48 0	12	0 7	0
R Erythromycin (1263 Upjohn)	40 0	12	•	•
tablets 100 mgm 25	10 36	ea		TS
100	38 100			TS
500		ea	• •	TS
250 mgm 25		ea	• •	TS
100			• •	
		ea	• •	TS
500	406 - 26	ea	• •	$\mathbf{T}\mathbf{S}$
Evan Williams (437 EW)		_		
A hand cream, large	15 10	7	11 2	6
R llosone (413 Lilly)				
for oral suspension 60 mils	7 0	ea	10	6 TS
Pulvules 125 mgm 24	10 10	ea	16	3 TS
100	43 26		64	9 TS
500			312	9 TS
250 mgm 12	10 26		. 15	3 TS
100			. 125	3 TS
. 500	406 26		609	3 TS
R Hotycin (413 Lilly)	100 20	, cu		3 16
intravenous 250 mgm	12 46	19	. 18	6 TS
paediatric 60 mils	6 06			
tablets 100 mgm 24	9 106			O TS
				9 TS
100	38 106		. 58	3 TS
500	185 26		. 277	9 TS
250 mgm 12	10 26		. 15	3 TS
100	83 66		125	3 TS
500	$406 2\epsilon$	ea	609	3 TS
Lobidan (339 CG)				
anti smoking tablets	100 0	25	0 14	7
Predsol (518 Glaxo)				
retention enema box of 7	45 6e	a .	. 60	8 TS
Rikospray (1061 Riker)				
silicone hp	46 0e	a 11	беа	
henzocaine hn	36 0e			
• 8.7 (218 Calmic)	00 00		-	
cream 30 gm	46 0	11	6 6	81
dusting powder 15 gm	25 0	6	3 - 3	8
75 gm	59 0	14	9 8	7
jelly 15 gm		6	6 3	
jelly 15 gm Spurt (1037 Reckitt)	26 0	О	0 3	91
Spurt (1037 Reckitt)	20 0		•	
liquid feed	28 0	• •	. 3	6
Sustacol (972 Pharmax)				
tablets 20				†s4A
200	42 0e	a .		†s4A
Thrive (1037 Reckitt)				
fertiliser 1 lb	16 0		. 2	0
3 lb	36 0		. 4	6
7 lb			. 7	Ö
14 lb	88 0		. 11	o
28 lb	164 0	:	. 20	6
56 lb	304 0		. 38	ŏ
Wellcome (208 BW)	301 0			-

calcium borogluconate solution 20% vet. 400 cc Wescodyne (115 Bengue) Delete

100.0

germicide 16.02 80 oz

AMENDMENTS TO KEY TO SUPPLIERS:

Delete (604 Hewlett)=C. J. HEWLETT & SON, LTD. (604 AH)=ASTRA-HEWLETT, LTD. (1144 DS)=(Dr.) SINGHA CO., LTD., 1 Victoria Street, Caernarvon. Caernarvon 2117.

MISCELLANEOUS INQUIRIES

Hair Lacquers

Could you provide me with a suitable formula for a hair lacquer?

THE following may be taken as a basic

formula for a hair lacquer:

De-waxed bleached white shellac 1 lb. Industrial spirit 1 gall. Perfume CLS.

Add the shellac to the spirit, stir frequently at intervals until dissolved, add perfume, and filter through glass wool if not clear.

The above shellac is also water-soluble, but lacquers made with water do not dry quickly enough and are consequently not popular. Some of the shellac may be replaced with powdered or block resin for a harder setting lacquer, 2 oz. to each gall. being sufficient. For a softer setting lacquer, a plasticiser such as dibutyl phthalate should be incorporated (approximately 5 per cent. of the weight of shellac). Poly-vinylpyrrolidone (PVP) is used in aerosol hair lacquers, a typical formula is:

PVP	5.0
Liquid lanolin fraction	0.5
Polyethylene glycol 400 monolaurate	0.5
Perfume	1.0
Anhydrous alcoho!	93.0
_	

Dissolve the PVP in alcohol, Add all other ingredients but propellent. Heat slightly, allow to stand over night, filter. Add propellent.

In charging the aerosol, 40 parts of the above concentrate are used with 60 parts of propellent.

A shellac type aerosol lacquer may be made as follows:

Anhydrous alcohol Bleached shellac, bone dry 37:50 parts dc-waxed, rosin-free 1.50 Polyethylene g'ycol No. 400 monolaurate 0.25 Lanolin Perfume 0.45

In charging the aerosol, equal parts of the above concentrate and propellent are

A "Stimulating" Hair Lotion

Can you provide a formula for a nontoxic hair lotion with a stimulating effect?

THE following formula for a stimulating hair lotion not containing a poison is taken from our publication "Pharmaceutical Formulas, Volume II":

Resorcin acetate	gr. 10
Tincture of capsicum	min. 15
Oil of rosemary	min. 10
Distilled water	1 oz.
Iospropyl alcohol to	8 oz.

An "icing" effect in hair lotions is usually produced by adding menthol gr. 6 or 10 per oz. A simple lotion of that kind may be produced on the following basis:

Tincture of quillaia	min. 30
Alcoholic solution of	
ammonia (10 per cent.)	min. 30
Menthol	5 gr.
Alcohol	3 dr.
Distilled water to	1 oz.

ULSTER ASSOCIATES' SECTION

Seventeenth annual meeting at Belfast

THE committee of the associates' section of Ulster Chemists' Association received a number of anonymous complaints from its members during the year. It was made clear at the section's annual meeting, held in Belfast on November 3, that no action could be taken on such complaints.

MR, H. M. HAMILTON (chairman) extended a welcome to all those present especially the representatives of Ulster Chemists' Association, Mr. W. J. Moffett (president), and Mr. H. W. Gamble (vice-president). Apologies for absence were received from Miss M. Meneely; Messrs. W. R. Davidson and G. M. Shaw. After addressing the meeting briefly, Messrs. Moffett and Gamble withdrew.

The minutes of the 1959 annual meeting were read and approved. The committee's annual report and the balance sheet for the year ended September 30 were adopted.

Wanted a Provincial Member

THE CHAIRMAN said that the following three retiring pharmaceutical chemist representatives had offered them-selves for re-election to the committee: Messrs. H. M. Hamilton, W. T. Hunter, S. Wright, and the following retiring student representatives had also offered themselves for re-election: Miss R. Green and Mr. D. G. Anglin. The other retiring member, Mr. J. M. McC. Thompson did not wish to offer himself for re-election. No new nomina-tions had been received. Miss P. Durling, Ph.C., Mr. D. Corbett, Ph.C., and Mr. J. R. Fogarty had been co-opted to the committee leaving one vacancy for a pharmaceutical chemist representative, and one vacancy for a student representative. The committee would be glad to hear of any provincial member who would be interested in joining the committee. He then formally declared the five members re-elected to the commit-

Chairman's Address

In his address to the meeting, Mr. Hamilton said that during the year many important decisions were reached, and many obstacles overcome. A new wages scale was negotiated, which as well as showing an increase in most categories, also saw an increase in rota payments. "While mentioning this new wages scale, which is now in force, I would like to say that during the year the committee received a number of anonymous complaints from persons who said that they were not being paid in accordance with the new agreement. As a section we exist especially for problems such as this, and your committee is only too anxious to deal with complaints of this nature. Unfortunately however, the committee can do nothing about anonymous complaints. I can appreciate that in some cases there is a good reason why persons may not wish to voice their complaints for fear of certain reprisals, but I can assure you that in such cases, your committee or any member of it will be glad to

interview any associate personally, at any time, and to treat his problem with the utmost secrecy and tact. As an illustration of what I have been saying, during the year, following a complaint from a member, about which we as a committee did not feel competent to give advice, the associate and myself arranged to have a meeting with the section's solicitor at which we talked over the problem; followed the legal advice given; and, I am happy to say, had a satisfactory result."

Committee Membership

Mr. Hamilton went on to speak about the composition of the committee. is composed of ten pharmaceutical chemists, six students, and one hospital pharmacist representative who is coopted each year. Each member serves for two years and is then eligible for re-election, but only half the committee retire at any one time in order that continuity of purpose may be sustained. The committee has power to co-opt members to fill any vacancies, and it also has the power to ask any member to resign from the committee. A committee meeting is held on the second Monday of each month to deal with any business which may be brought before

One of the most recent enterprises of the committee was the setting up of a pharmacy planning committee, which aimed to correlate all information regarding planning, construction, materials, designs, etc., used in the building of shops, hospital pharmacies and teaching establishments, and to have that information readily available for anyone who might want it.

"As a result of a resolution at last year's annual meeting attempts were made to reduce the hours worked. These failed, but your committee will continue to work in that direction. With regard to shorter working hours, the rock upon which most moves perish is the argument—and I think it is a reasonable one—that if Smith up the street is keeping open, then I am, too. It must be our aim to convince the 'man in the street' to close, too, and to make it clear that if everyone closes then none will suffer, and no trade will be lost or gained by anyone. It is up to all associates to give full support to moves in that direction."

The chairman referred to the deaths of committee member and past chairman, Jimmy Morley, "a tireless worker and a most faithful member," and Mr. C. W. Young, "who will be sadly missed both at the Technical College and in pharmacy circles in general." A scholarship fund had been set up to perpetuate the name of C. W. Young and to raise the status of pharmacy in Northern Ireland through pharmaceutical research. The section was represented on the committee administering the fund, and had made a donation to it. The chairman urged members to support the fund.

Following the chairman's address there was a discussion on various sub-

jects including working hours, and closing on certain Bank Holidays.

Meeting of Executive

Chairman of the associates' section of Ulster Chemists' Association for 1960-61 is Mr. R. J. Davidson, who was elected to office at a meeting of the section's committee held in Belfast on November 14. The following were also elected:—Vice-chairman, J. H. Galbraith; Honorary Secretary, R. G. P. McMullan; Treasurer, D. G. Anglin; Joint Council Representatives, R. J. Davidson and J. H. Galbraith (exofficio), W. T. Hunter and G. E. Mc-Ilhagger; Auditor, Miss M. Meneely; Representative on Northern Ireland Chemists' Benevolent Fund Committee, W. T. Hunter; Hospital Pharmacist Representative, G. E. McIlhagger; Social Subcommittee, the honorary officers, J. R. Fogarty and other members as before with W. R. Davidson as convenor, D. Corbett as secretary and J. H. Galbraith as treasurer. Mr. H. M. Hamilton (retiring chairman) presided. Miss P. Durling, Messrs, D. Corbett and J. R. Fogarty, were welcomed on their first attendance as committee members. Discussion took place on various matters arising from the annual meeting, and routine business was dealt with. It was noted that a letter had been sent to the Association's executive committee advising them that the associates' committee were intend-ing to set up a pharmacy planning committee.

The committee indicated acceptance of an invitation to nominate two members to serve on the committee. It was also noted that permission had been granted for the committee to place a board in the committee room, setting out the names of past chairmen. A report of the social subcommittee meeting held on October 24 was received, from which it was noted that tickets for the annual dinner-dance would be available January 2–14, to Associates only, and afterwards for general sale, Miss D. Nugent (unqualified assistant) was approved for associateship.

ACCENT ON BEAUTY

A "queen" among the cosmetics



"MISS NORTHERN IRELAND" AT TRADE SHOW: Miss Jean Russell ("Miss Northern Ireland, 1960") photographed with Mr. Gordon R. Spencer (a director, George Spencer & Son, Ltd., London), at a trade show organised by the company recently in Belfast.

MACHINERY AND PLANT

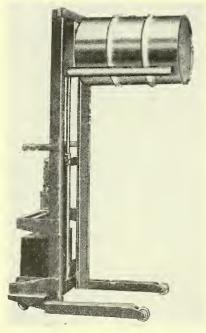
Bottle Washing. — Capable of handling either 1,440 or 2,400 bottles per hour, the special features of the Powley Apex hydro bottle washer manufactured by R. Powley & Sons, Ltd., St. Marks Road, Sunderland, include economy in running costs and space required.

For Small Batches. — Taking up a bench area of not more than 3 sq. ft. the S.P.1 bench tableting machine designed by Manesty Machines, Ltd., Speke, Liverpool, 24, is appropriate for small batches and experimental work. Its output is sixty-five tablets per minute and it will produce tablets up to ½ in. diameter.

Information on Heat Exchangers.— The publication "Wärmeaustauscher" (heat exchangers), one of a series produced by Dechema (Deutsche Gesellschaft für Chemisches Apparatewesen), first published in 1950, has been reprinted in enlarged and revised form. The price is D.M.34-90 for Dechema members and D.M.43-60 for nonmembers both prices plus carriage.

members and D.M.43·60 for non-members, both prices plus carriage.

Barrel Stacker.—A new model has been added to the range of Vertolifter hydraulic elevator trucks manufactured by Powell & Co., Burry Port, Carmarthens, Equipped with tubular forks and designed to lift drums weighing up to



700 lb. from the ground to a height of 56 in. (alt_rnatively to 70 in.) it is useful for loading or unloading vehicles as well as for stacking, and powered by a hydraulic pump operated by hand or, alternatively, by mains motor or by 12-volt motor and traction battery. The easily manoeuvrable truck can be supplied with detachable platform for use as a normal lifting truck when not required for drums.

Power Operated Homogeniser. — A small power-operated laboratory homogeniser has been designed by Ormerod Engineers, Ltd., Shawclough, Roch-



dale, for laboratory work and for small batches in hospitals. It is capable of an output of 2 gall. per hour with a maximum operating pressure of 1,000 lb. per sq. in, All contact parts are in stainless steel and it is very compact and easily cleaned.

Instrumentation Control. — Using a system that is a form of balanced electromagnetic servo mechanism the S.E.I. transducer systems may be used to measure, record, or control many non-electrical quantities including movement, pressure, vacuum, fluid flow, liquid level, loadings, and expan-

sion. The manufacturers are Salford Electrical Instruments, Ltd., Salford, 3, Lancs.

New Models of Mixers.—The new Manesty stainless steel mixer has 6 cu. ft. working capacity and is available from the company's Speke, Liverpool 24, works. It is additional to the "H" mixer of 3 cu. ft. capacity. Both have removable paddles, safety guards, transparent plastic lid and tilting gear. A new drum mixer with 2 cu. ft. capacity is now offered with interchangeable stainless steel or galvanised drums. The Manesty Fitzmill is recommended for high speed wet or dry granulation, mixing, chopping or pulverising.

Automatic Controls. — Diversey (U.K.), Ltd., whose products are distributed by Deosan, Ltd., 42 Weymouth Street, London, W.1, announce the availability of two new automatic "dispensing" units for controlling the strength of the solution in the tanks of medium-size bottle-washing machines. The Diversey Divomatic master solution control unit, series 100, is an electronic feeding device that operates continuously testing the strength of the wash solution, adding solid detergent when needed to maintain a predetermined strength of solution.

PACKAGING NOTES

Little John's New Cap.—Little John drums, the cylindrical cardboard containers that have been made by Robinson & Sons, Ltd., Chesterfield, for over thirty years, are now obtainable with plastic closures in addition to the tinplate range. The Little John drum is finished at the top and base with a rolled bead, and the closure, whether it be plastic or tin-plate, provides a snap fit behind the top bead, thus providing a drum that has a resealable lid. The plastic closures offered range from ½ in. to 2 in. in diameter in the company's standard range and two sizes are offered with perforations, making the drum suitable for dredging or sprinkling of powders. Moulded by Stewart Plastics, Ltd., Purley Way, Croydon, Surrey, from high-impact polystyrene, Styron, manufactured by British Resin Products, Ltd., Devonshire House, Piccadilly, London, W.1, the closures are finished in a neutral ivory colour.

A Versatile Labelling Machine. -Barry-Wehmiller Machinery Co., Ltd., 93 Shaftesbury Avenue, London, W.1, have obtained the manufacturing and marketing rights (except for the United States and Canada) of the Phin labeller. It is claimed that the Phin machine can label any size or shape of container or carton (even in the flat) of almost any material. The Phin is capable of production speeds of up to 150 containers or cartons per minute, and may either be provided with fully automatic infeed and discharge mechanism or fitted for hand loading. The machine is designed with a complete lack of reciprocating parts and in consequence vibration and noise are reduced to a minimum. Noncorrosive materials including stainless steel and plastics are used extensively throughout the machine. To ensure positive label adherence, a compression system of label application is employed

and each label is subjected to that pressure for a minimum of $2\frac{1}{2}$ machine cycles. The carriage on which is mounted the label, glue and pressure pad units is supported on four screw jacks and is capable of vertical adjustment by means of a single hand wheel. thus facilitating quick and easy adjustment for container sizes. The main chain is fitted with a number of container rests or blocks and these can either be changed over or fitted with inserts for varying container contours. The machine discharge can be arranged so that the containers leave the labeller in either the vertical or horizontal position, the latter being achieved by a simple tumble wheel mechanism. Overall length of the machine is 161 in. and the width 30 in. It is capable of accommodating containers of a maximum height of 10 in, and a maximum label size of 6 x 6 in. Containers down to a minimum of 1 fl. oz. may be accommodated using a label of 1 x 1½ in, minimum size.

Container Developments.—Lacrinoid Products, Ltd., Gidea Park, Essex, have introduced a new high-density polythene aerosol container. A new method of manufacture, for which patents are pending, is claimed to produce aerosol containers that withstand pressures of from 55-85 lb. per sq. in. at temperatures of from -22° F. to +104° F. Blow-moulded bottles have a seam running across or partly across the base, which produces a weakness which Messrs. Lacrinoid claim is now largely overcome by the introduction of the reinforced base. Messrs. Lacrinoid have also developed a new method for the manufacture of blow-moulded polythene bottles. By a patented method, blown bottles with the thinnest possible wall thickness have sufficient rigidity to stand firmly without tumbling over.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, NOVEMBER 23: Business in Crude Drugs was reported by some to be slightly better during the past week with prices generally fairly stable.

Stocks of Buchu have virtually been cleared on the spot; if any is left it is more likely to be from the 1958-59 crop, for which the last asked price was 5s. per lb. against 4s. 3d. recently. Aleppy green CARDAMOMS were substantially reduced in price for shipment to around 12s. 6d. per lb. which to around 12s. 6d. per lb., which showed a fall of one shilling. Lower prices were believed to be ruling at origin for TONQUIN BEANS but precise details were lacking. The in-bond price of Brazilian MENTHOL dropped by one shilling per lb. upon the arrival of more Chinese material; stocks in Brazil were said to be cleared. Tinnevelly SENNA shipments from the port of Tuticorin in the months August, September, October, were as follows:-

	U.K.	U.S.	EUROPE
SENNA	- tons	tons	tons
LEAVES	47	32	467
PODS	22	1	279

Among Essential Oils Formosan CITRONELLA firmed considerably and al 6s. 9d. per lb., in bond, the oil is now dearer than the Ceylon variety, thus resuming the same position it formerly held. Brazilian PEPPERMINT rose threepence per lb. on the spot while Bois DE ROSE was threepence per lb. lower for shipment,

In CHEMICALS, ZINC OXIDE was reduced by 50s. per ton during the week, and a grade of POLYTHENE was reduced by fourpence per lb. TANNIC ACID is down by sixpence per lb.

Pharmaceutical Chemicals

p-Aminosalicylic acid. — Sodium, 17s. 6d. per kilo for 1,000-kilo lots

Ammonium acetate. — 1-cwt. lots of B.P.C. 1949, 4s. 5d. per lb.

Ammonium bicarbonate,—B.P. powder, £50 5s, per ton; carbonate, £81 10s, for lump and £85 10s, for powder.

Ammonium chloride. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 42s. 6d.

ANEURINE HYDROCHLORIDE. £9 5s.; 10-kilos, £8 17s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. Sodium ascorbate is offered at the same price.

CALCIFEROL.—B.P., 3s. 3d. per gm. for

CALCIUM PANTOTHENATE. — £7 10s. per

Charcoal.—Medicinal activated, B.P.C., in 1-cwt. lots, £22 10s. per cwt.

Cyanocobalamin.—25-gm. lots, £23 per gm., and 1 gm., £24.

Folic ACID. — B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

MENAPHTHONE. — (One-kilo-lots). B.P. 170s.; warer-soluble (menadione sodium

pisulphite, U.S.P.), 180s. NICOTINAMIDE. — (Per kilo). One-kilo, 5s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — One-kilo, 39s.; 50-

cilos, 36s. per kilo. NIKETHAMIDE.—Per kilo, 100s.

PHENOL. — Ice crystals in drums is s. $4\frac{1}{2}$ d. per lb. (under 1-ton lots, 1s. $7\frac{1}{2}$ d.).

Detached crystals, 2d. per lb. above and LIQUID, B.P., $\frac{3}{4}$ d. per lb. below the fore-

PHOSPHORIC ACIDS. — B.P. (s.g. 1-750) is from 1s. 4d. to 1s. 8d. per lb. as to quantity. B.P. 1914, 1s. 2d. to 1s. 6d. per lb. Hypophosphorous, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb., as to quantity; drums, 7s. per lb.; 50 per cent. acid, drums, 8s. 9d.

POTASH SULPHURATED. – Lump, в.р.с., 2s. 6d. per lb. in 1-cwt. lots.

Potassium acetate. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE.—B.P. powder, 110s, per cwt. 1–4-cwt. lots and 105s, per cwt. for 5-cwt. and over.

POTASSIUM BROMATE. — In 5-cwt. lots, 5s. 3d. per lb.

Potassium chloride. — In 1-cwt. lots B.P., 1s. 6d. per 1b.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 8d. per lb. and pellets, 4s. 6d.; technical flake, 1s. 10d.

POTASSIUM 8-HYDROXYQUINOLINE PHATE. — 1 kilo is 47s. 1d. and 50 kilos, 44s. per kilo.

Potassium nitrate. - Pharmacopæial quality, 100s, per cwt. (crystal or powder) in 1-cwt. lots.

Potassium Permanganate. — B.P. in 1-cwt. lots, 1s. 11³/₄d. per lb. Technical 209s. per cwt. and £198 per ton.

POTASSIUM QUADROXALATE. - One-cwt., 3s. 6d. per lb.

Potassium sulphate. — B.P. 1949, one-cwt. lots, 1s. 2d. per lb.

Potassium thiocyanate. — One-cwt., 5s. 6d. per lb.

PYRIDOXINE. One-kilo, £50 10s. per kilo; 10 kilos, £49.

Pyrogallic acid. — One-cwt., pure rystals, 24s. 6d. per lb.; resublimed 26s. 6d.

QUININE. — 1,000-oz. lots:—ALKALOID, 3s. per oz.; SULPHATE, B.P., 1932, 1s. 11½d.; SULPHATE, B.P., 1958, 2s. 2½d.; BISULPHATE, 2s.; DIHYDROCHLORIDE, 2s. 9d.; HYDRO-CHLORIDE, 2s. 6½d.; ETHYL CARBONATE, 4s. 3d.; HYDROBROMIDE, 2s. 5d. Quantities under 100 oz. plus threepence.

RIBOFLAVINE. - One kilo, £13 5s.; 10kilos, £12 17s. 6d. per kilo.

SODIUM ACETATE.—B.P.C., 28-lb., 2s. 4d. per lb.; 1-cwt., 2s.; 5-cwt., 1s. 11d.

Sodium Benzoate.—One-ton lots, 2s. $7\frac{1}{2}$ d. per lb.; 1-cwt., 2s. $9\frac{1}{2}$ d.

SODIUM BROMATE. — One-cwt., 9s. 9d. per lb.

SODIUM CARBONATE. — B.P.C. exsiccated, 70s. per cwt.; 5-cwt., 65s. per cwt.

Sodium Chloride. — Recrystallised, 25s. per cwt.; B.P., 42s.

SODIUM METABISULPHITE. — Granular, 1-cwt. lots, 9d. per lb.

SODIUM PERBORATE. — (Per ton) f.145 15s., in 1-cwt, kegs; f.138 5s. in 1-cwt, bags for B.P.C. (minimum 10 per cent. available oxygen). PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is £309 15s.; TETRAHYDRATE, from f.131 15s. to £139 5s. per ton as to packing.

SODIUM PERCARBONATE. — (Per cwt.) 170s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. - B.P.C. powder, 2s. 3d. per lb.

SODIUM SALICYLATE. — One-ton lots in bulk, 3s. 7d. per lb.; 5-cwt. 3s. 8d.; 1-cwt. 3s. 10d.

SODIUM SULPHATE.—B.P. from £12 10s. to £21 per ton as to crystal, quantity and packing, ex works. B.P. exsiccated, £54 per ton.

TANNIC ACID.—The B.P. levis, ex ether, 9s. 3d. per lb.; B.P. powder, 8s. 9d. (1-cwt.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm, as acetate or palmitate the price is $9\frac{1}{2}$ per million i.u.

VITAMIN D₂.—In oil, 2 million units per gm, the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—Tocopheryl acetate, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s, per kilo.

ZINC CARBONATE.—One-cwt. lots, 1s. 11d. per lb.

ZINC CHLORIDE. — B.P.C. cake, 5s. per lb.; sticks, 6s. 10d. TECHNICAL, 115s. per cwt.

ZINC OXIDE. — B.P. in 2-ton lots, £110 per ton.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE. — B.P., 1-cwt. lots, 1s, 10d. per lb.

Industrial Chemicals, Solvents

ACETALDEHYDE.—The 100 per cent. is £122 per ton.

ACETATES.—Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL,

ACETIC ANHYDRIDE.—10-ton lots, £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL.—1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

Carbon Tetrachloride. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall, for 10,000-gall, lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

Naphthalene.—Nominal home contract Prices per ton for large users:—
CRUDE, from £22 5s. to £23; WHIZZED, £27 5s. to £35 15s.; PHTHALIC grade, £42 10s. all ex maker's works; CRYSTALS from £62 10s. to £65 delivered; BALL AND FLAKE, £71 to £73 10s. delivered.

PHTHALATES. — Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £180 10s.; DI-METHYL, £182.

STEARATES. — Spot prices for minimum 1-ton lots:—Aluminium (all grades), 253s. 6d. per cwt., Calcium (precipitated), 243s. 6d.; Lead (30 per cent.), 223s. 6d.; Magnesium (standard), 272s. and (superfine), 302s.; Zinc 226s. to 286s. as to grade

Crude Drugs

ACONITE. - Spot: Spanish napellus, 2s. 6d. per lb.

ALOES.—Cape primes, spot, 175s. per cwt.; shipment, 167s. 6d. Curação, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.; CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 7s. to 10s., duty paid as to source. Peru: Spot, 8s. 9d. in bond. Tolu (genuine as imported) small lots, 25s.; B.P., 12s. 6d.

BELLADONNA. — LEAVES (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

Buchu. — Spot rounds, 1958–59 crop, 5s. per lb.

CALABAR BEANS.—Spot, 2s. 3d. per lb. CALAMUS.—Root, 1s. 2d. per lb., c.i.f.

CAPSICUMS.—Chinese, on stalk, 155s., duty paid.

CARDAMOMS. — Aleppy greens, landing 14s. per lb.; shipment, 12s. 6d. per lb., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CASCARA.—Spot, 1960 peel, 265s. per cwt., shipment, 265s., c.i.f.
CHERRY BARK. — Thin natural, 2s. 8d.

per lb., nominal.

CHILLIES. — Nigerian, 185s. per cwt.; Zanzibar, 370s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s, 8\d.; 3 O's, 5s, 3d., O, 4s. 11d.; quillings, 3s. 2d.; featherings, 1s. 7d.

Cochineal.—Black-brilliant, 9s. 6d. per lb., silver-grey, 8s. 6d.; Peruvian silver-grey, 4s. 6d., all spot.

Cocillana. — Bark, 2s. per lb., spot;

- Purpurea for shipment, DIGITALIS. 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEMI.—Spot, 2s. 6d. per lb. nominal. Shipment, not offering.

Ergot.—Portuguese nominally 11s. per lb., c.i.f., for prompt shipment; spot, 9s. 3d.

Frangula.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt. GINGER. — African, spot, 230s. and 207s. 6d., c.i.f. Jamaican No. 3, spot, 205s.; shipment, 195s., c.i.f. Cochin, shipment, new crop, 142s. 6d., c.i.f.; spot, 170s. (per cwt.) 170s. (per cwt.).

Gum Acacia. — Kordofan cleaned sorts, 157s. 6d. per cwt., spot. November-December shipment, 142s. 6d., new crop, January-February, 141s. (both c.i.f.).

HENNA. — Indian, spot, 105s. per cwt.; new crop, November-December shipment, 70s., c.i.f.

Honey.—Australian light amber, 100s. 100s. 1.—Australian light amber, 100s. to 105s, per cwt. and medium amber 95s. to 100s. Argentine, 110s. to 115s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

1PECACUANHA. — For shipment, c.i.f., per lb.—Colombian, 50s. 3d.: Costa Rican, 68s. 6d.; Nicaraguan, 66s. 6d. Spot: Matto Grosso, 53s. 6d. to 55s. as to test; Colombian, 55s. 6d.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

Kola Nuts. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

Lanolin. — Anhydrous, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and hydrous, B.P., 150s., free drums, delivered.

LEMON PEEL.—Spot, 2s. 6d. to 3s. per lb.

LIQUORICE. — Natural root: Persian on the spot, 44s, per cwt.; Russian, 65s, and Anatolian decorticated, 175s. Block juice: Anatolian from 190s, per cwt.; Italian stick from 392s, to 470s, per cwt.

MACE. — Whole pale blade, 23s, 6d, per lb. spot.

MENTHOL. — Chinese: spot, 90s. per lb. duty paid; afloat, 85s., c.i.f. Shipment, 83s. Brazilian, 56s., in bond; Formosan, 58s., duty paid (55s. 6d. in bond).

NUTMEGS. — West Indian 80's 12s. per o., spot; sound unassorted, 9s. 6d.; lb., spot; s defectives, 7s.

Orange Peel. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s. 1d.; Spanish, 1s. 7d.; bitter ribbon, 1s. 4d.

PAPAIN. — Tanganyikan, 12s. per lb., c.i.f., for grade one. Spot 13s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 5s. 1d. per lb.; shipment, 4s. 9\frac{1}{2}d., c.i.f. Black Sarawak, spot, 3s. 10\frac{1}{2}d.; shipment, 3s. 3\frac{1}{2}d., c.i.f. Black Malabar, 460s. per cwt. spot, and 360s., c.i.f.

PEPPERMINT LEAVES. — Du ls. 9d. to 2s. 2d. per lb., c.i.f. LEAVES. - Dutch whole,

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

Podophyllum.—Emodi, 190s. per cwt., spot. Peltatum, 375s.

Pyrethrum.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small

QUILLAIA. — Spot 230s, per cwt.; near shipment, 175s., per cwt., c.i.f.

RHUBARB. — Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

Saffron.--Mancha selecta, 147s. 6d. per

SARSAPARILLA. — Jamaican native red spot and shipment are nominal.

SEEDS. — (Per cwt.). ANISE.—Spanish. 167s. 6d.; Turkish, 130s., both duty paid. Caraway.—Dutch unchanged at 162s. 6d., CARAWAY.—Dutch unchanged at 162s. 6d., duty paid. Celery.—Indian offering at 145s., sbot; shipment firm at 132s, 6d., c.i.f. Coriander.—Moroccan, 140s., duty paid; shipment firm at 127s. 6d., c.i.f. CUMIN. — Indian, 180s., spot; Iranian, 177s. 6d., duty paid, DILL.—Indian, 100s., spot; shipment, 88s., c.i.f. Fennel. — Chinese, 105s., duty paid; Indian, 125s. Fenugreek.—Moroccan, 65s. to 67s. 6d., duty paid. Mustard.—English 70s, to 95s. according to quality. according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENEGA.—Spot, 21s. od. pc1 ib.

SENNA. — Tinnevelly LEAVES, prime
No. 1, 1s. 6d. per lb., nominal, f.a.q.;
No. 3, 9d. Pods: Manufacturing (f.a.q.),
9d. and hand-bicked, 1s. 6d. to 1s. 10d.
Alexandria pods: Manufacturing, 1s. 6d.;
new crop hand-picked, 4s. 6d. to 7s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.;
No. 1, 225s.; F.O., 235s. to 285s., spot.

SHAMONIUM — Indian LEAVES 60s, per

STRAMONIUM. — Indian LEAVES 60s. per vt., spot. Dutch 0.5 per cent. alkaloid cwt., spot. 93s., c.i.f.

STYRAX. — Spot, 32s. 6d. per lb., shipment, 30s., c.i.f.

Tonouin Beans.—Para spot, 7s. 3d. per o. Shipment nominal. Angostura 11s.

Tragacanth. — No. 1 ribbon, £ £150 per cwt. No. 2, £135 to £140. £145_to

TURMERIC. — Madras finger on spot is 105s. per cwt.: November–December shipment, 93s., c.i.f.

Valerian root. — Spot: Belgian, whole (max. 24 per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared; new-crop prices awaited.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d 56-lb., 23s. 9d.; smaller quantities, 24s.

Waxes. — (Per cwt.). Bees'.—Dar-es-Salaam, spot. 485s.; shipment, 460s., c.i.f. Abyssinian. spot 410s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot. 425s.; shipment, 380s., c.i.f. Candelilla, spot. 460s. Carnauba, fatty grey, spot, 530s.; shipment, 485s., c.i.f.; prime yellow, spot, 740s.; shipment, 725s., c.i.f.

WITCH HAZEL LEAVES.—New-crop nominally 3s. 6d. per lb.

Essential and Expressed Oils

Almond. — Moroccan, 6s. per lb., duty Anise.—Chinese, 6s. 8d. per lb., spot;

shipment, 6s. 5d., c.i.f. Arachis.—Spot, 2-5-ton lots naked ex

mill, £142 per ton. BAY.—West Indian, 13s. 6d. per 1b. on the spot.

Camphor, white.—Chinese, 1s. 8d. per 1b. in bond; 1s. 5d., c.i.f.

CARAWAY.—Imported oil, 26s. 6d. per lb. Cassia.—Smalls, 18s. 6d. per lb. for 80-85 per cent.

CEDARWOOD.—American rectified, 5s. per lb. on the spot.

CINNAMON. — From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 9s. 6d. per lb.; Seychelles, 8s., spot.

CITRONELLA. — Ceylon, spot, 6s. 7d.; shipment, 6s. 3½d. per 1b., c.i.f. Formosan. spot, 6s. 9d., in bond; shipment, 7s., c.i.f.

CORIANDER.—B.P. oil, 52s, 6d. per lb.,

DILL.—Imported, 30s. per lb., spot.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 3d. per lb. 80–85 per cent., 5s. 6d. Spanish, 3s. to 3s. 6d. spot. Chinese 3s. 3d., duty paid. GRAPEFRUIT.—Florida, 18s. per lb.

LAVANDIN.—Spot from 7s. per lb. for original drums.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

LEMONGRASS.—Spot, 14s. per lb., nominal and shipment, 13s. 9d., c.i.f.

LIME. — West Indian distilled, 50s. per lb. on the spot.

OLIVE. - Spot, 19s. 6d. to 20s. 6d. per gall, in drums ex wharf, London.

PATCHOULI. — Penang is 42s. 6d., duty paid and 40s., c.i.f., per lb.

PENNYROYAL. - Spot is firm at 15s.

per lb. duty paid.

- Arvensis: Chinese spot. PEPPERMINT. PEPPERMINT. — Arvensis: Chinese spot, cleared, Brazilian, 17s. 6d. per lb. spot and shipment, 17s., c.i.f.; new-crop 16s. 3d., c.i.f. Piperita: Italian "Mitchamtype" nominally 55s. per lb., c.i.f., for new crop. spot, 60s. American from 27s. 6d. to 35s. per lb. as to make.

PIMENTO. — English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots. SAGE.—Spanish, 8s. per lb.; Dalmatian,

Sandalwood.—Mysore 150s. to 155s. per East Indian 155s.

Sassafras.—Brazilian is from 3s. 6d. per lb. duty paid.

SPEARMINT.—American oil on the spot 46s. 6d. per lb.

Tangerine.—From 20s. 6d. to 29s. per

lb., as to quality, spot.

THYME.—B.P.C. oil 9s. 6d. per lb.

VETIVERT.—Bourbon spot, 115s; to 120s, per lb.; shipment, 113s., c.i.f.

YLANG YLANG.—Spot, 37s, 6d. per lb.

UNITED STATES REPORT

New York, November 22: Domesoffered ASCORBIC tic manufacturers ACID at \$6.80 per kilo, down 25 cents. VANILLA BEANS were lower in price, with Bourbons at \$8.25 a lb., down 25 cents. Higher per lb. among ESSENTIAL OILS were Spearmint at a nominal \$7.50, up 55 cents; Formosan CITRONELLA for resale of \$1.10, up five cents; and LEMONGRASS at \$2.20, up 15 cents. Lower per lb. were LAYENDER SPIKE at \$1.50, down 10 cents, and CUBEB at \$8.75, down sharply from a former rate of \$12.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

December 4—10	London	Midland	North	Scotland	Wales	South	Z.E.	Anglia	Ulster
Alka-Seltzer Anadin	2	4	2	2	2	2	2	1	2
Anadin André Philippe	-	,	,	7	7	7	3	7	3
hair lacquer	_	_	_	_	—		_	_	1
Aspro	6	4	4	4	6	4	4	3	-
Beecham's pills	1	2	2	2	1	1	_	1	1
powders	4	5	5	5	4	4	4	4	4
Burdon's sherry Calfornia syrup of	_	_		_	1	_	_	_	_
figs	_	_	1		_	_	_	_	
Coldrex	2	3	3	3	3	3	3	3	3
Coliclean	_	_	2	_	_	_	_	_	_
Cussons gift sets	2	2	2	2 2	2	2	2	2	2
Cuticura		2	—	2	_			—	2
Deep Heat	3	3	—		3	2	2	2	2
Delsey	_	_	_	3	_	_	3	_	_
Dristan tablets	_	_	1	_		_	_	_	_
embrocation	_		_	1	_	_	_	1	_
Germolene	_	4	1	_	_		1	_	_
Gillette	4	4	4	4	4	4	4	5	4
Guavin	—	_	_	—	—	2			
His Exeellency	—	—	—			1	_	_	-
Horlicks	3	3	3	2	4	3	3	2	2
Lantigen	_	_	1		_	_	-	1	_
Loxene hair cream Max Factor gift sets	3	2	2	3	2	1	1	3	3
Milk of Magnesia	1			1	1	1	1	1	_
tablets		2	2	_	_	_	_	_	2
Norvic electric									
blankets	1	—	—		—	—	—	_	
Owbridge's products	3	3	1	—	3	3	3	3	—
Penetrol inhalant	_	1	1	_		_	1	_	_
hilips electric	1	1	1	1				1	_
hilishave	6	6	6	6	6	6	6	6	6
Phyllosan	_	1	1	_	1	1	1	1	1
tinstead pastilles	1	_	î	1	i	1	1	_	1
tonson CFL shaver	4	4	4	5	4	4	4	4	4
letlers	1	1	1 .	_	1	2	1	—	—
tergene	3	3	1	2	3	3	2	3	2
/aseline petroleum	5		4	-			E	-	
eno's cough mixture	5	4	4	5	5	5	5	5	5
Vinspray products					_			_	_

WILLS

MR. W. J. ADAMSON, M.P.S.I., Grianan, nniscrone, Ballina, co Mayo, left estate in ngland and the Republic of Ireland valued at Mr. W. J. 20,460.

Mr. O. BEEBY, M.P.S., 38 Green Road, Ashourne, Derbys, left £5,342 (£5,289 net).

MR. H. R. FLETCHER, M.P.S., 27 St. Chad's venue, Leeds, left £29,650 (£29,575 net).

Mr. J. A. Hickson, M.P.S., 20 Kensington oad, Winshill, Burton-upon-Trent, Staffs, left 30,665 (£30,426 net).

MR. W. H. HUBBERT, M.P.S., F.S.M.C., miper, Victoria Avenue, Woodhall Spa, Lincs, ft £14,710 (£13,330 net).

Mr. E. E. HUNT, M.P.S.. 8 Woodali Avenue, arborough, Yorks, left £23,572 (£23,025 net). MR, F. C. E. HINKS, 160 Finchampstead oad, Wokingham, Berks, who qualified as a emist and druggist in 1899, left £8,253 (£8,201

Mr. L. Ingram, M.P.S., 28 Lyndhurst Road, dington, Birmingham, left £7,144 (£6,540 net). Mr. W. Mosley, M.P.S., 243 Kingston Road, illerby, Hull, Yorks, left £5,667 (£5,407 net). MRS. F. NIGHTINGALE, wife of H. R. Nightll Park, Enfield, Middlesex, left £8,418 (£8,348

MRS. G. L. PHILLIPS, M.P.S., 49 Pereira Road, rhorne, Birmingham, 17, left £5,718 (£5,630

MR. W. E. PRITCHARD, M.P.S., Deiniolen, yn Avenue, Prestatyn, Flints, left £20,108 0,039 net).

WORLD TRADE

United States Sales of Medicinals.— According to the latest figures assembled by the U.S. Tariff Commisfigures sion, the total United States produc-tion of medicinals (in bulk) in 1959 was 106.6 million lb., or 4.9 per cent. more than for 1958. Sales in 1959 were valued at \$585 millions (compared with \$555 millions). In terms of value, the antibiotics (as a group) were the most important medicinals produced in 1959. Sales in 1959 were valued at \$318 millions—or 4.2 per cent. more than in 1958. Penicillin sales in 1959 were valued at \$57 millions (\$60 millions), those of dihydrostreptomycin, \$13 millions. Sales of all vitamins in 1959 totalled 7.3 million lb., valued at \$76 millions. Sales of hormones in 1959 amounted to \$23 millions. The output of sulphonamide drugs in 1959 was

5.8 million lb.; aspirin, 18.1 million lb.; barbiturates, 819,000 lb.; and tranquillisers, 1.4 million lb.

Developments in Israel. — A citric acid plant is being constructed near Haifa, Israel, by Miles Chemical Laboratories, Inc., using the parent company's production process. The enter-prise will later extend into other fields involving enzymes, vitamins and anti-biotics. A second report from Israel biotics. states that an Israeli chemist, at a detergent plant at Kibbutz Dalia, has invented a new detergent manufacturing process that cuts production costs by two-thirds. Patent rights are understood to have been sold to the Colgate company in the United States and to several South American and Mediterranean countries, including Italy.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Tuesday of the week of insertion.

Monday, November 28

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, and LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, North-west Kent College of Technology, Miskin Road, Dartford, at 7.30 p.m. Mr. G. L. Baldit (Plant Protection, Ltd.) on "Chemical Aids to Crop Protection."

WOKING BRANCH, PHARMACEUTICAL SOC'ETY, Red house hotel, at 8 p.m. Mr. D. F. Lewis (the Society's assistant secretary) on "Public Relations in Pharmacy."

Tuesday, November 29

Corrosion Exhibition, Olympia, London, W.14. Until December 2.

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMA P.M. Mr. C. Gunn (head of the Leicester) School of Pharmaey) on "The Change-over to the Metric System "; film show by Pfizer, Ltd.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Royal Victoria hotel, at 8 p.m. Film show; motions for Branch Representatives' 1961 meeting.

Wednesday, November 30

GLASGOW AND WEST OF SCOTLAND BRANCH, PHAR-MA EUTICAL SOCIETY, masonic halls, Cadzow Street, Hamilton, at 7.45 p.m. Talks on "Drugs Which Act on the Brain"; on "Ignorantia Iuris Neminem Excusa."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, assembly house, Theatre Street, at 7.30 p.m. Discussion on "Odd, Old and Interesting."

NUTRITION PANEL, SOCIETY OF CHEMICAL INDUS-TRY, and NUTRITION SOCIETY. 14 Belgrave Square, London, S.W.I, at 6.15 p.m. Dr. H. J. Humphrey (consultant, food conservation division. United Nations Children's Fund) on "Potentialities of Industry in Preparing Pro-tein-rich Foods."

PORTSMOUTH BRANCH, PHARMACFUTICAL SOCIETY, Royal Beach hotel, Southsea, at 7 p.m. Annual dinner and dance.

Thursday, December 1

LFEDS Branch, National Pharmaceutical Union. Jacomelli's restaurant, Boar Lane, at 8 p.m. Messrs, W. G. Peberdy and P. T. Cuihane on "Behind the Iron Curtain."

LIVERPOOL BRANCH, PHARMACEUTICAL School of Pharmacy, Liverpool College of Technology (new building), Byrom Street, at 7 p.m. Teehnological evening.

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-TRY, Battersea College of Teehnology, Batter, sea Park Road, London, S.W.II, at 7 p.m. Professor C. K. Ingold on "Nitration and Nitrosation: A Contrast."

Manchester Pharmaceutical Association and Branch, engineers' club, Albert Square, at

7.45 p.m. Professor A. Wilson (department of pharmacology and general therapeuties, Liverpool University) on "The Enlarging Scope of the Pharmaceutical Horizon,"

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Albert hall institute, at 7 p.m. Bring and buy sale.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston hotel, Kingston-on-Thames, at 7.45 p.m. Mr. W. G. Busbridge (Atomic Energy Authority) on "The Peaceful Uses of Atomic

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Eecleston hotel, Gillingham Street, London, S.W.1, at 6.30 p.m. Social evening; dinner,

Friday, December 2

EAST METROPOLITAN BRANCH, PHARMACEUTICAL Society. Whipps Cross Hospital, at 8.30 p.m. Superintendent G. E. Salter (New Scotland Yard) on "Counter-Criminal Methods."

Merseyside Branch, National Association of WOMEN PHARMACISTS, 9 Bluecoat Chambers, School Lane, Liverpool, at 7 p.m. Talk by Superintendent 1, Wood (Liverpool Women's Police).

WORSHIPFUL SOCIETY OF APOTHECARIES OF LONDON, FACULTY OF THE HISTORY OF MEDICINE AND PHARMACY, apothecaries' hall, Black Friars Lane, London, E.C.4, at 5.30 p.m. Dr. A. H. T. Robb-Smith on "The Growth of Knowledge of Functions of the Blood."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6 p.m. Professor J. F. Danielli (Kings College, London University) on "Physicochemical Aspects of Chemotherapy.

Saturday, December 3

YORKSHIRE BRANCH, GUILO OF PUBLIC PHARMA-CISTS, St. Luke's Hospital, Bradford, at 3 p.m. Mr. G. R. Wilkinson (Allen & Han-burys, Ltd.) on "Sterilisation as Applied to Central Sterile Supply Departments.

Advance Information

Doltors' Hobbies' Exhibition, great hall, B.M.A. house, Tavistoek Square, London, W.C.1. December 5-9.

PHARMACEUTICAL SOCIETY, 17 Bloomsbury Squarc, London, W.C.1, at 7.30 p.m., on December 7. Mr. G. R. A. Short (chief flavour ehemist, W. J. Bush & Co., Ltd.) on "Flavours and Colours in Medieines.'

SELF-SERVICE DEVELOPMENT ASSOCIATION, Great Eastern hotel and Abereorn rooms, Liverpool Street, London, E.C.2, at 7 p.m., on December 6, Mr. A. G. Trotman (Beeeham Foods, Ltd.) on "Toiletries in Self-service." Free tickets of admission are available from Hartleys, Wilkins & Flew, 1 Co 1 Central Buildings, Tothill Street,

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," November 16

For photographic chemicals for processing lightsensitive materials used for instrument recording in industrial and scientific processes (1)

PERMANIZING, B795,514, by Kodak, Ltd., London, W.C.2.

For hand-cleaning preparations (3)

CHEVRON, 773,644, by Berry Wiggins & Co., Ltd., London, E.C.4,

For preparations for the hair; make-up kits comprising preparations for the hair; cosmetic preparations; non-medicated toilet preparations, perfumes; depilatory preparations; hand creams, non-medicated toilet preparations; and saponaceous preparations (3) and medicated preparations for the skin and scalp; medicated toilet preparations and deodorants (5)

PAMPER, 800,944-45, by Gillette Industries, Ltd., Isleworth, Middlesex.

For preparations for the hair (3)

BARBER BOBS, 802,441, by Alcona Products, Ltd., London, N.19.

For all goods (3) (5)

NOURY, 803,651-52, by N.V. Nourypharma, Deventer, Holland.

For artificial eyelashes and artificial eyebrows (3) FURLS, B804,380, by Eric Douglas Kenneth Turner, Codicote, Hitchin, Herts.

For cleaning, polishing, scouring and abrasive preparations; and perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and dentifrices (3)

TOTAL, B805,097, by Compagnie Française des Petroles, Paris 16e, France.

For dentifrices (3)

CONTACT, B805,389, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For cleaning preparations: detergents (not for use in industrial and manufacturing processes); etc. (3) INHIBISOL, 806,383, by Penetone International Corporation, Tenafly, New Jersey, U.S.A. For antiseptics in powder form for medical, sur-

gical and veterinary use (5)

B.F.I., B789,350, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For chemical substances for use in diagnosing complaints of the heart (5)

CARDIO-GREN, B794,518, by Hynson, Westcott & Dunning, Inc., Baltimore, Maryland,

For suppositories for the treatment of rectal and vaginal intections (5)

NEOGENE, 796,595, by Calmic, Ltd., Crewe,

For all goods (5)

ATRONA, 797,337, by H. W. Woods (Pty.), Ltd., Huntingdale, Victoria, Australia, PEN-TILONE, 804,170, by Hoechst Pharmaceuticals, Ltd., Slough, Bucks.

For pharmaceutical preparations (in the nature of shampoos) for use in the treatment of the scalp (5)

SPAN, 798,137, by County Laboratories, Ltd., Stanmore, Middlesex.

veterinary preparations, all being for sale in the United Kingdom (5)

PARADE, 802,935, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey,

For pharmaceutical preparations and substances for human and veterinary use, all being for sale

in the United Kingdom (5) PLOVAX, 802,936, WINOVAX, 802,940, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For laxatives (5)

EROLAXIN, 803,480, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical products and preparations (5) NOBEDOL, 803,711, by A. B. Bofors, Bofors, Sweden.

For pharmaceutical preparations for the prophylaxis and treatment of influenza, upper respiratory diseases and the common cold, all for sale in the United Kingdom (5)

1NFLUMAX, 803,885, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey

For pharmaceutical and sanitary substances and preparations, all for use in the treatment and/or cleaning of dentures (5)

KUKIDENT, 804,260, by Kukirol-Fabrik Kurt

Krisp, K.G., Weinheim, Germany

For preparations for use in the prevention and treatment of pulpy kidney disease in sheep (5) PULKID, 804,487, by Winthrop Group, Ltd., Surbiton, Surrey.

For all goods containing amines (5)

DELAMYN, 805,145, by Calmic, Ltd., Crewe, For veterinary medicines for admixture with poul-

try rations (5)

CARB-O-SEP, 805,473, by Whitmoyer Laboratorics, Inc., Myerstown, Pennsylvania, U.S.A. For medicated salve, being a pharmaceutical preparation for application to the gums (5)

GUMIFRICE, 805,909, by Cranc-Hall International, Washington 5, D.C., U.S.A.

For fungicides and herbicides (5) CASORON 133, 806,752, by N.V. Philips-Duphar, Amsterdam, Holland.

For pharmaceutical nasal preparations (5) NEWNAZE, 806,361, by Ayrton, Saunders & Co., Ltd., Liverpool, 1.

For antibiotics (5)
M1RAPEN, 806,957, by Løvens Kemiske Fabriks Handelsaktieselskab, Ballerup, Denmark. For pharmaceutical preparations and substances (5)

FOSEPAR, 807,095, by Dr. A. Wander, S.A., Berne, Switzerland.

For pharmaceutical preparations for human and veterinary use (5)

CETABARB, 807,018, by Evans Medical, Ltd., Liverpool, 24. LUMBESE, 808,305, by throp Group, Ltd., Surbiton, Surrey. MILLA-MIDON, 808,857, by CIBA, Ltd., Baslc, Switzerland.

For electric shaving instruments and parts (8) Remington, 788,892, by Remington Rand, Ltd., London, W.C.1.

For cases specially adapted for carrying cameras; and filters, filter holders, lens hoods and lenses, all being photographic goods (9)

with words BENFOTO PRODUCT, Device B774,214, by B. Bennett & Sons, Ltd., London, W.1.

For photographic and photomechanical instruments and apparatus and utensils for use therewith; and parts and fittings, etc. (9)

OZAJET, 797,073, by Ozalid Co., Ltd., London, E.C.2.

For photographic cameras (9)

AUTOLINK, B800,253, by Kodak, Ltd., London, W.C.2.

For flexible containers for injection fluids and devices for use therewith for administering such fluids whether sold separately or together, all being for surgical or curative purposes (10)

STERIFLEX, 795,122, by Allen & Hanburys, Ltd., London, E.2.

For baby pants (25)

PLAYTEX NEAT-EES, 795,178, by International Latex Corporation, Dover, Delaware, U.S.A.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," November 16

Vaccine, Research Laboratories, Inc. 858,536. Antibiotic echanomycin, echanomycinic acid and process for their manufacture. CIBA, Ltd. 858.210.

Production of amidoalkylamides, Riker Laboratorics, 1nc. 858,426.

Diazepine derivatives, Miles Laboratorics, Inc. 858 558.

Piperazine preparations for treatment of worm Westminster Laboratories, 858 455.

Antiphlogistically active salts of CIS-\(\triangle^9\)-hepladecenoic acid and CIS-\(\Delta^9\)-pentadecenoic and a process for their production. G. Grimmer and W. Sturm, 858,621.

Flavouring substances and their preparation. Unilever, Ltd. 858,660, 858,333.

Wax compositions, synthetic waxes and a process for their manufacture. Ferbwerke Hocchst A.G. Vormals Meister, Lucius & Bruning. 858,663. Production of phenthiazine derivatives, Egyesült Gyogyszer Es Tapszergyar, 858,664.

Process for the preparation of surface-active salts of N-acylanino-carboxylic acids, Cie., G.m.b,H, 858,239. Henkel &

Preparations for the treatment of the hair. Ashe

Chemical, Ltd. 858,430.

Cosmetic preparation, F. Hoffmann-La Roche Co., A.G. 858,614.

Dibenzoheptanes and salts thereof and a pro cess for the manufacture of same, F. Hoffmanr La Roche & Co., A.G. 858,186. Dibenzocyloheptanes and salts thereof and a pri

cess for the manufacture of same, F. Hoffmani La Roche & Co., A.G. 858,188.

Refining of maleic anhydride, Montecatini Soc

Generale Per L'Industria Mineraria E Ch.mica 858,622. 5 - aryl - sulphonamido - 3 - substituted

2,4-thiodiazole derivatives, Farbenfabrike Bayer, A.G. 858,189. Quaternary ammonium compounds and a proces

for their manufacture. Schering, A.G. 858,719 Preparation of steroid compounds, Glaxo Labora tories, Ltd. 858,427.

Process for the preparation of 20-mono-enol acyl ates of 11: 20-diketo steroids. Organon Labora tories, Ltd. 858,271.

Thioglycolates and dithio-diglycolates and thei preparation and use in hair waving. Gillette Co 858,216.

Substituted para-aminophenols and their use a Imperial Chemica photographic developers, Industries, Ltd. 858,432.

Pentachlorophenol emulsifiable Armour & Co. 858,687.

Apparatus for mixing liquids, R. S. Waddington and B. Duval, 858,653.

Aeration of liquids. National Research Develop ment Corporation, 858,661.

Machines for the production of coated tablet and the like. J. Holroyd & Co., Ltd., and F. T. Stott. 858,537.

Tableting machines for the production of coater tablets and the like. J. Holroyd & Co., Ltd. and F. T. Stott, 858,538.

Granulation of pulverous material, Farbenfabriker Bayer, A.G. 858,289.

Filtering method and apparatus. Pfaudler Per mutit, Inc. 858,609.

Closures for open mouthed containers. Fenwa Laboratories, Inc. 858,202.

British patent specifications are obtainable (price 3s, 6d, each) from the Patent Office, 23 Southamp ton Buildings, Chancery Lanc, London, W.C.2

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

SOME DERMATOLOGICAL HAZARDS of today, Brit med. J., November 19.

URINE FOR CULTURE, investigation into methods of collection of, from men and women, Brit med. J., November 19. Acute ferrors sulphate poisoning treated with

edathamil calcium-disodium, Lancet, Novemher 19. BLOOD-CHOLESIFROL and aspirin, Lancet, Nov-

ember 19. RADIUM NEEDLES and gynaecological applicators,

sterilisation of, Lancet, November 19 in diabetes mellitus,

Sulfonylurea therapy in diabetes
J. Amer. med. Assoc., November 5.

CHLORDIAZEPOXIDE, a new psychotherapeutic agent, J. Amer. med. Assoc., November 5. BIOLOGICAL MACRO-MOLECULES, Royal Inst. Chem., November.

ANTIBODY RESPONSE, specificity and inheritance of: a possible steering mechanism, Nature, Nov-

ember 19. PROTEIN CATABOLISM, Nature, November 19.

RAMULOSIN, a C10H14O3 compound produced by the fungus pestalotia ramulosa, Nature, November 19.

TETRACYCLINE ANTIBIOTICS, effect of, on the proteolysis of fish muscle, *Nature*, November 19. VITAMIN A ACID and hypervitaminosis, Nature, November 19.

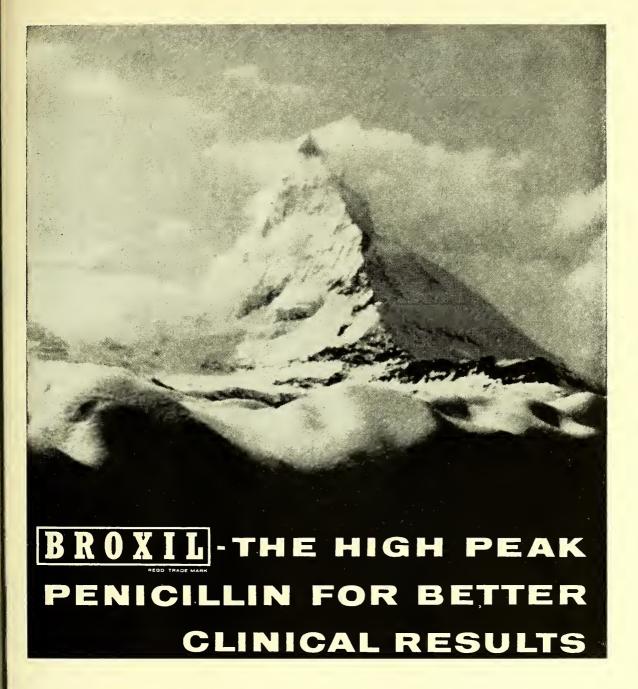
with radioactive iodine, INULIN, labelling of,

Nature, November 19. Dyspepsia, Med. Press, November 16.

FOOT-AND-MOUTH DISEASE, New Scientist, Novcmber 17.

A MEDICINAL PLANT GARDEN, Can. Pharm. J., October.

A COMPOSITE PHARMACY OF 1870, Can. Pharm. J., October.



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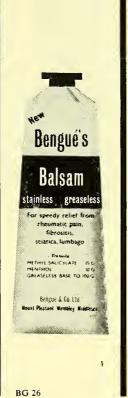
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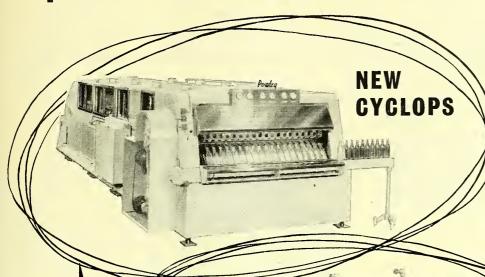
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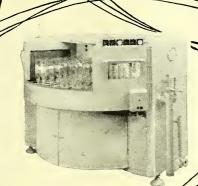
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THE PRIME MOVER IN THE MASS MARKET

It is estimated that £25,700 is spent daily by Mirror readers on toiletries and cosmetics. Be sure to display Stag toiletries for men in your windows and on your counters. Be sure customers know that you are their nearest stockist.





Here's a new line from Macdonald's that's going to prove as popular with the public as it's profitable to you—Household Cotton Wool. Like other Certor dressings from Macdonald's, it's most attractively presented—carton-packed, film-wrapped and heat-sealed for greater hygiene. And your customer has a choice of 3 eye-catching colours—Scarlet, Purple and Turquoise—a selection which you receive in even the minimum order of 1 dozen.



Trade Price: 12/- a doz. (Min. order 1 doz.) Retail Price: 1/6 each giving you a full 33½% profit on returns.

This pack also qualifies for normal dressings annual or parcel discounts.

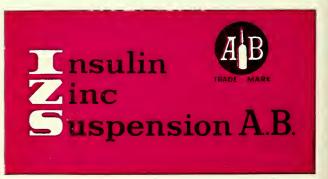


... a nice combination of speed and staying-power, don't you think? That is one of the great advantages of I.Z.S.—it gives a rapid initial response and yet provides, in most cases, adequate control of blood sugar for 24 hours with only one injection. And because this prolonged action is obtained without the addition of foreign protein or peptide material, you don't see the allergic reactions that, as Sister will tell you, were not uncommon with the older long-acting insulins. That is why you will find I.Z.S. (Lente) is the most suitable insulin for 90 per cent. of your diabetics . . . and don't forget the A.B. — that, Baxter is a tip worth remembering."

I.Z.S. (Lente) A.B. Vials of 10 c.c. 40 or 80 units per c.c.

I.Z.S. (Semi-lente) A.B. Vials of 10 c.c. 40 or 80 units per c.c.

I.Z.S. (Ultra-lente) A.B. Vials of 10 c.c. 40 or 80 units per c.c.



Joint Licensees and Manufacturers.

ALLEN & HANBURYS LTD LONDON E2 . THE BRITISH DRUG HOUSES LTD LONDON N1

ILN60/352/AbN



'SKYLON' POLYTHENE HOT WATER BOTTLES

Light in weight and complete with polythene cap and rubber seal, these bright colours are a certain attraction at "point-of-sale"



Shown here is one of the two attractively printed polythene film wrappers that always draw attention—the second shows Father in his nightgown and cap!

Ask your Wholesaler to show you the bottles in their printed wrappers and stock up NOW for the "winter-rush"!

ELGAR 6006

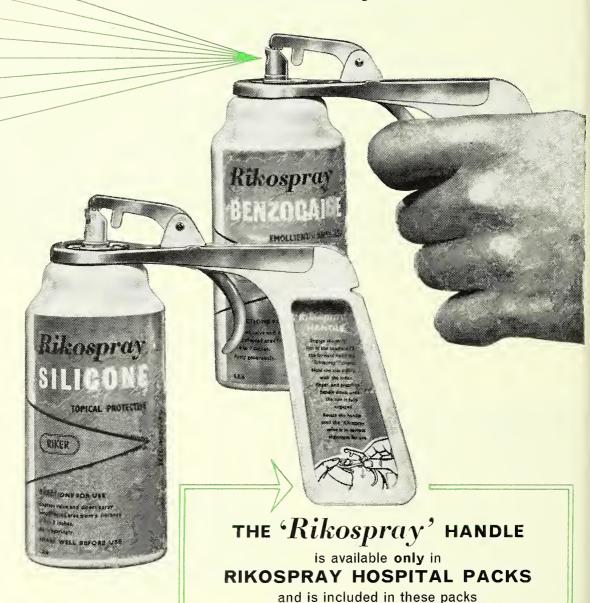


SKYLON HOUSE, PARK ROYAL ROAD, LONDON, N.W.10

Riker introduce the new

Rikospray HANDLE

provides 'spray gun' convenience of application ensures maximum freedom from contamination and greater facility in use



without charge

Rikospray

BENZOGAINE

an emollient analgesic in aerosol form

contains:

20.0% w/v Benzocaine 0.1% w/v Cetyl pyridinium chloride Water miscible base ad 100.0% in a pressurised canister (224 grammes)

Indications

before and after surgery in gynaecology and proctology before gynaecological examination in sensitive patients to facilitate cleansing in 'Gravel Rash'

PRICE OF HOSPITAL PACK

THREE 'Rikospray' Benzocaine 36/- exempt P.T.



Rikospray

SILICONE

a topical protective in aerosol form

Aluminium dihydroxy allantoinate 0.5% w/v 0.1% w/v Cetyl pyridinium chloride 1.0% v/v Terpineol Silicone vehicle ad 100.0% in a pressurised canister (222 grammes)

Indications

the prevention and treatment of bed-sores and napkin rash colostomy and ileostomy hygiene

PRICE OF HOSPITAL PACK

THREE 'Rikospray' Silicone 46/- + P.T.



'Rikospray' is a trade mark.

RIKER LABORATORIES LIMITED

LOUGHBOROUGH, LEICESTERSHIRE

RSHI

16

metal and plastic



Metal Box metal and plastic tubes are available in a quite exceptional range of shapes and sizes, with a wide variety of closures each designed to keep the contents in thoroughly good condition. All—up to 34 fluid ounces in capacity—are light (lower freight charges), virtually unbreakable (no breakage claims) and can be decorated in superb

multicolour printing (for increased sales appeal

Metal Box also offers freely three unrivalle services: a research service to test the compate bility of the tube with your products; a containe design service to design special tubes for special requirements, and studios to carry out surfact design.

METAL BOX

THE WIDE RANGE OF SIZES CATERS FOR ALL REQUIREMENTS, FROM BULK PACKS TO SAMPLES.

Aluminium tubes. Diameters from 12.5mm to 75mm with depths from 1.5 to 7 times the dia-

meter, maximum 230mm.

Plastic tubes. Diameters from 9.3mm to 36mm

and depths from 25.4mm to 89.7mm.

IMPORTANT NEWS!

Latest Sales Audits show that Chemists stocking METERCAL find that it outsells every other proprietary slimming product!

DON'T LOSE TIME!

If you haven't yet taken Metercal into stock, see the next two pages for particulars and trade terms.



Mead Johnson

The facts about Metercal

The New Concept in Weight Control

What is Metercal?

Metercal is a complete food in powder form. You mix it with water to make a beverage that resembles a milk drink. It provides the customer with a low calorie diet that is essential for weight reduction but contains all the basic nutrients and minerals needed while they are on a reducing schedule.

What does Metercal do?

Overweight people lose weight when they follow a Metercal reducing plan simply because they take in fewer calories than they require to maintain weight. Hunger is not felt while on a Metercal diet, because Metercal gives extremely high appetite satisfaction. Metercal contains no drugs, appetite depressants, or artificial bulking agents.

How to use Metercal

When an overweight person decides to follow a strict Metercal slimming schedule they take Metercal in place of all ordinary meals. This means that they are taking in 900 calories a day exactly—and no more. They can lose up to $\frac{1}{2}$ lb. a day—some lose even more. When the desired weight is reached Metercal may be taken in place of one or two ordinary meals in order to maintain it.

What does Metercal contain?

Metercal contains protein, fat, carbohydrates, vitamins A, C and D, thiamine, riboflavin, niacinamide, pyridoxine HCl, calcium pantothenate, vitamins E and B12. Minerals: calcium, potassium, sodium, phosphorus, iron, copper, manganese, zinc, iodine.



- **米 METERCAL** is nutritionally sound
- * METERCAL gives appetite satisfaction
- * METERCAL is clinically proven and full information has been supplied to the medical profession.
- * METERCAL contains no drugs, no appetite depressants or bulking agents.

STANDARD TRADE PRICE

You pay

You sell at

YOUR PROFIT

£3.11.0

£5.2.0

£1.11.0

Packed in cases of 12 tins as follows:

- **a** 4 x 3-flavour starter packs
- **b** Four tins each, chocolate, orange, vanilla
- **c** Twelve tins, any one flavour

NEW!

METERCAL 3-TIN STARTER PACK

You pay 17/9
You sell at 25/6

YOUR PROFIT PER SALE 7/9

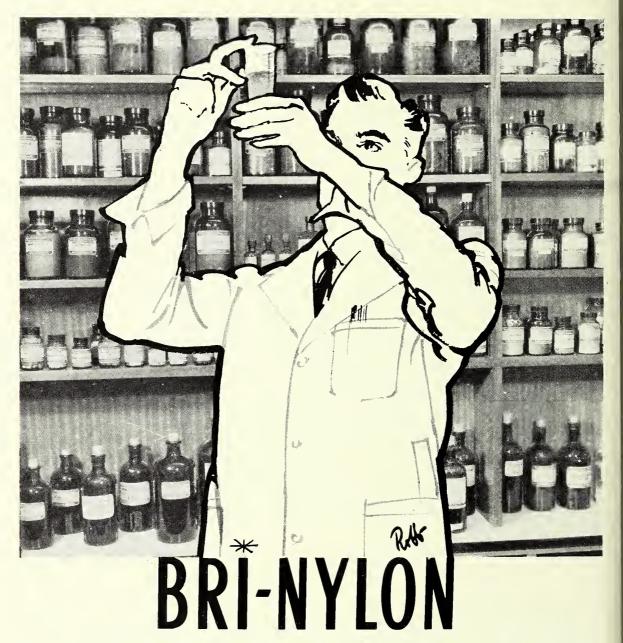
Ask your Mead Johnson Representative for booklets and attractive point-of-sale material, or write to Mead Johnson Ltd., 10 Upper Grosvenor Street, London, W.1.

Order Metercal from your wholesaler today



Mead Johnson

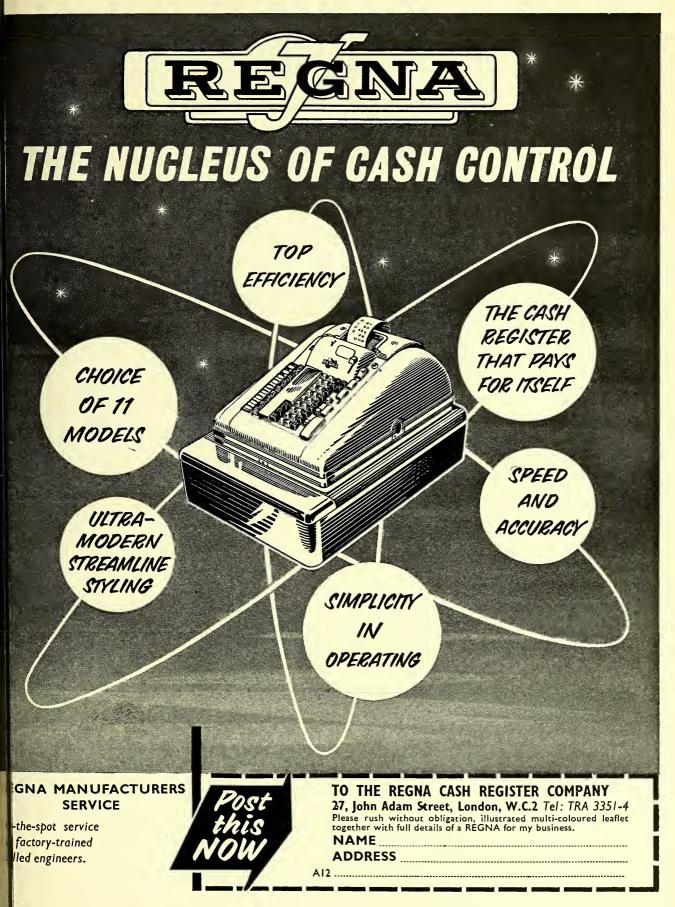


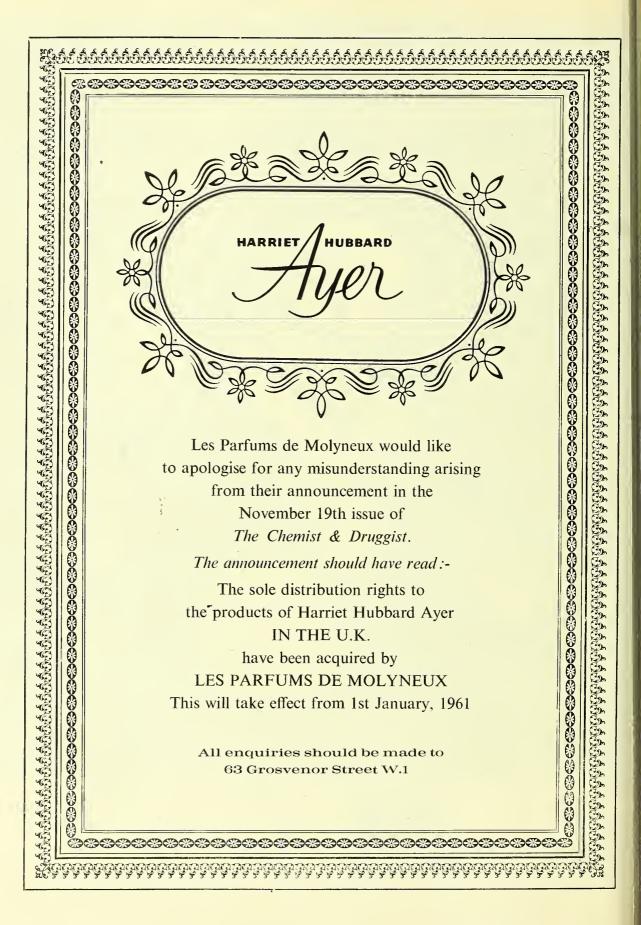


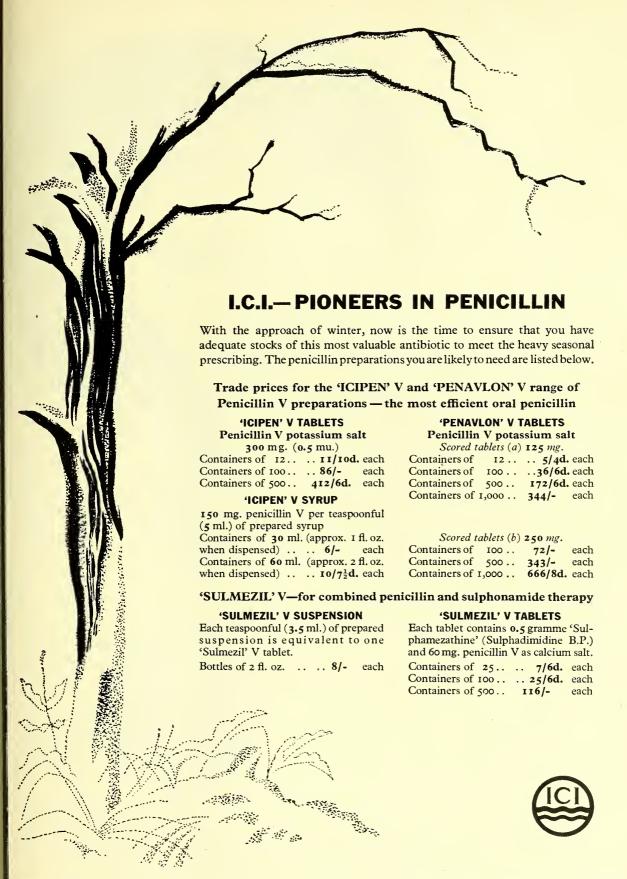
for the new-look work wear with the low-cost qualities

New and smarter styles for women and something completely new for men in opaque fabrics made from the new matt yarns. This is the news-of-the-season in BRT-HYION work wear. BRT-HYION overalls not only save money on a direct cost-for-life basis, but also reduce running costs, simplify laundering, increase efficiency and raise morale all round. BRT-HYION is highly resistant to wear, tear, moisture, shrinkage, rot, flame, chemicals and insects. Please present your work wear problems to: British Nylon Spinners Limited, Marketing Department, 68 Knightsbridge, London, S.W.I.

BRI-NYLON FOR THE BEST IN NYLON











The condensation of corrosive vapours poses special problems for designers of equipment used in the Chemical and Allied Industries.

THE PD GRAPHITE CARTRIDGE CONDENSER

provides a solution that functions perfectly in the presence of most acid and solvent vapours up to a maximum graphite temperature of 180°C.

Protection for the steel cartridge is provided internally against corrosive service fluids and externally against corrosive atmospheres.



10 models from 4 to 500 sq. ft, H.T.A.

20 sq. ft. cartridge size 8" dia. x 4 ft. long



Leaflet Ct 1/59 gives full technical details.

POWELL DUFFRYN CARBON PRODUCTS LIMITED

CHEMICAL ENGINEERING DESIGN, FABRICATION, INSTALLATION AND COMMISSIONING

SPRINGFIELD ROAD, HAYES, MIDDLESEX. TELEPHONE: HAYES 3994

H.P.7528

GREDENHILL

The First and Foremost **Specialized Supply Service**

for

Elastic Hosiery

Stock and recommend

SUPREME

SURGICAL HOSE

(N.H.S.)

- * Fully Fashioned for correct fit
- ★ Nylon Plaited for longer wear
- * Reinforced Heel

FROM STOCK BY RETURN OF POST

Experienced Staff give personal and detailed attention to all orders, post or telephone . . .

GREDENHILL

49 GOODGE STREET. LONDON W.I

Telephone: MUSEUM 9005



THE CHEMIST AND DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 174

November 26, 1960

No. 4215

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ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

FERSAMAL

the iron that's nice and easy to take

The effectiveness of Fersamal preparations is due to their high ferrous iron content—the tablets contain about 65 mg. and the syrup 32·5 mg. per teaspoonful. Their popularity both with doctor and patient is because Fersamal contains ferrous fumarate a nonirritant stable compound that is remarkably well tolerated; doesn't lead to gastric upsets; doesn't normally stain the teeth and doesn't constipate. The tablets are small and easy to swallow and for safety where children are concerned, they are not sugar coated. The syrup, however, is specially prepared and flavoured to appeal to children—it's the iron tonic with the juicy fruity taste.

Tablets or syrup, Fersamal presents iron that is both highly effective and easy to take.

FERSAMAL

TABLETS Tubes of 100 and 1,000. Retail prices $3/11\frac{1}{2}$ and 31/8 (both inc. P.T.). Trade prices 30/- per doz, plus 7/6 P.T. and 20/- each plus 5/- P.T.

SYRUP Bottles of 6 fl. oz. Retail price $5/6\frac{1}{2}$ (inc. P.T.). Trade price 42/- per doz. plus 10/6 P.T.









METATONE* is particularly valuable in getting convalescent patients back to full bodily vigour, after influenza and other debilitating illnesses.

A palatable reconstructive tonic, combining appetite-promoting vitamin B₁ with strychnine and mineral glycerophosphates...



METATONE speeds recovery

by rapidly restoring normal metabolic function

PARKE-DAVIS

Supplied in bottles of 8, 16 and 80 fl. ozs. * $_{\mbox{\scriptsize TRADE}}$ $_{\mbox{\scriptsize MARK}}$



PARKE, DAVIS & COMPANY Inc. USA Liability Limited · HOUNSLOW · MIDDX · TEL: HOUNSLOW 2361

Remember how Alka-Seltzer sales boomed last Christmas?...



then read this

The demand for Alka-Seltzer has never been greater. Year after year brings dramatic gains—and every Christmas (Alka-Seltzer's peak selling period) sales rocket to new heights.

INCREASED TV ADVERTISING

this Christmas will push
Alka-Seltzer sales even higher.

Make sure it's a sales record for you!



ORDER EXTRA STOCKS FOR CHRISTMAS NOW—AND DISPLAY ALKA-SELTZER WHERE YOUR CUSTOMERS CAN'T MISS IT.

THERE'S NOTHING LIKE ALKA-SELTZER





141

MILES LABORATORIES LIMITED, NUFFIELD HOUSE, PICCADILLY, LONDON, W1 · TEL: REGENT 5321



The first broad spectrum psychotropic drug

Neuroleptic Thymoleptic Tranquillizer





Acts rapidly

Few side effects

Price advantage

Pharmacists are recommended to sell only on prescription

ARACTA

Literature on request from

ROCHE PRODUCTS LIMITED, 15 MANGHESTER SQUARE, LONDON, W.1

Every third customer! A recent survey showed that one person in three admitted being overweight and would like to do something about it—that's the big market for Dramal, the nourishing diet food. Dramal definitely reduces weight, by up to half-a-pound a day.

Medically proven Dramal is a scientifically balanced food concentrate in powder form. Its low calorie, high protein formula is approved by doctors.

Your customers can't help losing weight because Dramal limits their calorie intake to exactly 900 a day. Yet they stay healthy, not hungry—because Dramal contains all the minerals, vitamins, and protein needed to maintain bodily health and vigour.

TWO SOURCES OF PROFIT

Dramal is amazingly flexible and will meet the needs of two distinct groups among your customers.

1 The obese Here the Total Dramal Diet is recommended. This involves taking the contents of an 8-oz Dramal tin daily instead of ordinary meals until the desired weight is achieved.

2 The 'figure conscious' The Limited Dramal Diet will be the choice of those

who want to lose a few pounds or to stabilise their weight. Here Dramal will replace one or two of the regular daily meals.

The market is large—and Dramal promises slimness without hunger, without loss of energy and vitality!

Twelve-for-ten Introductory Bonus!

Special Bonus offer of 12 for 10 orders gives you 38/3 on every dozen you buy at 63/9.

Order Now! Make sure of your supplies. Your order will be held for delivery until early January 1961, so that you can give full attention—and display space—to your Christmas lines. DRAMAL advertising will begin January 16.

Don't forget—customers will need a CONTINUOUS supply of Dramal. Order adequate stocks.

HEAVY ADVERTISING

TV Powerful 30-second commercials will be a regular feature on all TV stations . . . London · Midlands · North · Southern Wales and West · Anglia · Tyne Tees Scottish · Ulster

PRESS Two-colour, full pages in these popular women's magazines will be appearing regularly to advertise the theme:

'NEW NOURISHING WAY TO SLIM'

Woman · Woman's Realm Woman's Illustrated · Good Housekeeping Modern Woman · Vogue · Woman & Beauty

Dramal is a registered trade mark

PHILLIPS, SCOTT & TURNER - SURBITON - SURREY





if you are adequately prepared with stocks of these popular B.D.H. winter products—you can buy them on advantageous bonus terms.

MULTIVITE, the ever popular and pleasant way to take vitamins. Each pellet contains vitamins A, B₁, C, D₂, in full potency.

'Pernivit' tablets, widely accepted as the most effective treatment for chilblains.

'Pernicream' for topical application to unbroken chilblains. Soothes the pain, relieves the itching.

'Tussimol' Cough Pastilles alleviate the "tickling cough". Equally suitable for children and adults.

PRICES AND SPECIAL **BONUS TERMS**

	Pharmacists			
'Multivite' Pellet	ts			
Bottles of	50 2/4	3/6		
Bottles of 1	50 6/2	9/3		
'Pernivit' Tablet	s			
Bottles of	50 2/-	3/-		
'Pernicream'				
Per Tul	oe 1/8	2/11 (Incl. P.T.)		
	(plus P.T.)	(Incl. P.T.)		

'Tussimol' Cough Pastilles Per dozen tins 23/9 2/8 per tin

BONUS

One on every dozen with orders for three dozen or more, either single products or assorted (not less than 1 dozen of any product).

THE BRITISH DRUG HOUSES LTD. LONDON N.1



CCOON STAND



- * Takes all 35 mm. colour slides $(2 \times 2 \text{ in.})$.
- * Just press the slide to operate.
- * Hooded, optically polished lens.
- * Beautifully styled in two-tone plastic.

JOHNSONS OF HENDON LTD

FOR CONFIDENCE IN PHOTOGRAPHY



Have you a sealing problem?

If so, have you considered how the use of Alu-Pharm adhesive aluminium bottle capsules could be the immediate answer to your problem? The adhesive coating ensures a perfect seal, making your product tamper-proof.

The Alu-Pharm capsules are available in a large range of colours and sizes suitable for sealing bottles whichever closure is used.

They can be applied at high speed and cost less than any other metal capsule.

May we quote for your requirements?

IDEAL CAPSULES LTD.

Edinburgh Avenue, Slough, Bucks.

Telephone: Slough 22251. Telegrams: Iseal, Slough.



Manufactured and packed in the Laboratories of

Sample box gladly sent upon request from

RICHARD DANIEL & SON, LTD.

Mansfield Rd., Derby. Tel. 40671 (10 lines) and at Grosvenor St., Ashton-u-Lyne. Tel. 5161 (9 lines)

E. GRIFFITHS HUGHES LTD.

announce

the following retail price changes, effective from 1st December 1960

	FORMER PRICE	NEW PRICE
'KWELLS'	1/9	2/-
'RADOX' Bath Salts	2/1 3/9	2/3 4/-
'Digestif RENNIES'	5d. 1/- 1/9 2/11	6d. 1/2 2/- 3/3

E. Griffiths Hughes Ltd. Manchester



Caps: Black, Red or White Plastic

or White Enamelled Tinplate.

"The Sign of a



Good Bottle"

BEATSON, CLARK & CO. LTD. GLASS BOTTLE MANUFACTURERS ROTHERHAM Established 1751 YORKSHIRE



it's another delivery of ... Fe C₁₂H₂₂O₁₄2H₂O

The BEST specifics for ... IRON DEFICIENCY ANAEMIAS contain

FERROUS GLUCONATE

produced in its purest state by

KEMBALL, BISHOP

Yes, mate, there's better absorption

O.K., mate, with excellent results

but, mate, it has virtually no side effects.

RIGHT, MATE, the iron salt of the easily assimilable non-toxic, gluconate radicle does not produce gastro-intestinal disorders!

Sure, mate, and it's real value for money.

KEMBALL, BISHOR

chemicals for industry

KEMBALL, BISHOP & CO. LTD. Ramsgate Road, Sandwich, Kent Telephone: Sandwich 2371 ADVance 1234

IN THE SALON . . . MADAME CHOOSES





COLOUR SHAMPOO

For years MONIL Colour Shampoos have been the favourite choice in the smartest salons—and now women everywhere can achieve the look of professional perfection by using MONIL in their own homes. Available in 17 glorious shades, MONIL are particularly renowned for excellent pure browns and black - notoriously difficult colours with which to obtain completely natural effects. This is why so many women prefer MONIL-and always ask for it by name. They'll be so pleased to recognise their favourite colour Shampoo on YOUR counter!

MONIL makes MONEY for YOU★

The name MONIL already rings a bell with smart women— NOW it can ring the bell of your till! MONIL offers a really good profit margin. Display the attractive MONIL pack on your counter and see for yourself how easy it is to make money with MONIL.

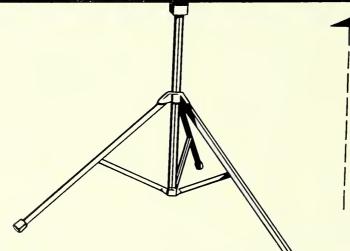
RETAIL PRICE 4/- per boitle. 24/- per doz. (plus P.T.) Carriage paid 5 doz.

Order from your usual Wholesaler or in difficulty write to:

MONIL LTD, Hunmanby, Filey, Yorks.



WHATE



MAKE SURE
IT HAS THE
ALDIS
TRADE MARK

ALDIS SQUARE-40

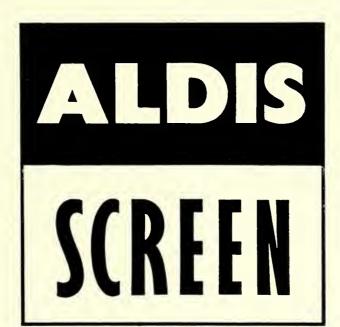
For average-size rooms. 2 in. x 2 in. slide projector with 8.5 cm. lens will fill the screen at 8 ft. distance. £5.19.6

ALDIS SQUARE-50

For larger rooms and small halls. 2ii 2 in. slide projector with 8.5 cm. lens fill the screen at 10 ft. 6 ins. 10 cm. lens fill the screen at 12 ft. 6 in. £7.19

PROJECTOR . .

plour ansparencies ansparencies better vill look better



These new ALDIS screens are really amazing value! beautifully made tripod screens, easily erected in a few minutes. The screen surfaces are glass-beaded for maximum light reflection, and the fine grain ensures good resolution and definition. workmanship and finish is of very high quality. Never before have such fine screens been available at such low prices. Demonstrate the ALDIS screens—your customers will realise that it's what they've been wanting to complete their slide show enjoyment.





METAL SLAT BAR

Keeps out dust, protects screen surface when stored, prevents rubbing and tearing.

FINER BEADED SURFACE

Finer beading minimises grain in projected image, and gives clear, sharp pictures.





METAL HANGER

Sturdy and practical design for added strength and rigidity.

Screen leveller for uneven floors.

AUTO-LOCK

Permits full adjustability of height, and conversion from square screen for slides to oblong for movies.

BEAUTIFUL COLOURS

Distinctive colour combination used on slat bar, case and plastic parts for overall attractiveness.

olesale Distributors:

O M P A N Y L I M I T E D

77 NEWMAN ST., LONDON, W.I

Trade Counter: 3 BERNERS MEWS, W.I (rear of building) Tel. LAN 7161 (10 lines)



GOODNIGHTS begin with ...



Plastic packaging by METAL BOX





















METAL BOX

LASTICS GROUP

PLASTIC FILMS - LAMINATIONS + BOTTLES + MOULDED CONTAINERS

New Vitaminised IRON-OX **Tonic Tablets**

A NEW PACK AND NEW VITAMINISED FORMULATION

P.A.T.A.

Small size of 50 tablets	RETAIL 2/3d.	LIST 17/- pe	er doz
Medium size of 140 tablets	4/9d.	36/-	,,
Large size of 250 tablets	7/9d.	58/8	,,
SUBJECT TO PUR	CHASE TAX	25%	

IRON-OX SUPREME VITAMINISED TONIC TRON-OX TABLETS SUPREME BLOOD VITAMINISED TONIC TABLETS

- Each individual size will bear its own price.
- Display terms available.
- Increased National Advertising.

IRON-OX HAS BEEN ON SALE FOR OVER SIXTY YEARS

THOMAS MARNS LTD. Green Lane · Hounslow · Mdx HOUNSLOW 5122

TURN BIG PROFITS WITH THE



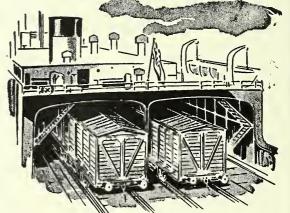


NEAT · EFFICIENT · ROBUST · ONLY

Runs for long periods without attention. Ideal for counter or window. Carries up to 6 lbs. Supplied clockwise or anti-clockwise. 200/250 volts A.C. (Orders treated as clockwise unless otherwise specified.)

FROM USUAL WHOLESALERS OR WRITE DIRECT THE GARRARD ENG. & MFG. CO. LTD. NEWCASTLE ST. SWINDON, WILTS. Tel: SWINDON 5381 Telex: 44-271 Goods to European Markets in through wagons every day

TRAIN FE



HARWICH ZEEBRUGGE DUNKERQUE

Packing and handling absolute minimum

Full particulars from:—Continental Superintendent, Victoria Station, London, S.W.1 for Dover route and Continental Traffic & Shipping Manager, Harwich House, 129 Bishopsgate, London E.C.2 for Harwich route.

BRITISH RAILWAYS

8 out of 10 women are being reached regularly by the current Tress advertising . . . so keep Tress Wave Set right before the eyes of your hair-conscious customers



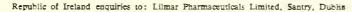
TRADE TERMS

SMALL SIZE: Price 10/-per dozen bottles plus 50% tax selling at 1/8 per bottle. LARGE SIZE: Price 15 - per dozen bottles plus 50% tax selling at 2,6 per bottle.

From your usual wholesaler or from:



GOLDEN LIMITED, 7 Grosvenor Street, London, W.I. Hyde Park 1671



from Pari

PHOLTEX

for the first time in cough treatment a product specifically designed for prolonged effect.



one week's cough treatment

for as little as 8d. a day from a 2 oz. bottle of PHOLTEX

PHOLIEX

gives hours of relief with a single dose through ion-exchange release.



longer-acting than other cough suppressants

Up to ten hours relief from a single teaspoonful because 'Pholtex' contains the cough suppressant, pholcodine, and the antihistamine, phenyltoloxamine. Both are presented as ion-exchange resin complexes to provide smooth and prolonged effect from each dose.

relief with only two doses daily

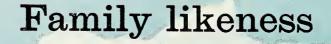
Pleasantly flavoured 'Pholtex' is excellent for both children and adults with troublesome, unproductive and useless cough.

for adults: 1 teaspoonful, night and morning for children: ½ to 1 teaspoonful, according to age, night and morning.

Each teaspoonful (4 ml.) contains: pholcodine as resin complex 15 mg. phenyltoloxamine as resin complex 10 mg. in a thixotropic vehicle.

Available in bottles containing 2 oz. and 20 oz. Retail prices 8/- and 74/- respectively





Every family has its own characteris which it is easily recognized; the "family" of fine pharmaceuticals is throughout the world for consistent and reliability. To maintain these standards, every chemical—and the over 200 of them—undergoes strict anal control in all stages of its manufactur. You can place complete confidence is brand pharmaceutical chemicals.

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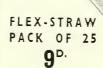


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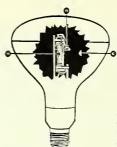


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Fragrant chemical block in unbreakable holder with suction grip. I/6 complete, Refills 9d.

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The genuine beer content In LINC-O-LIN Beer Shampoo brings out the richest tones in the dullest hair, and gives 'body' and 'weight' to fine hair. Suitable for all types of hair, this is the shampoo that creates customer good-will.

The genuine Beer Shampoo with the 'best bitter' flavour in four fascinating packs:

Box of 6 'Magnum' packs (each containing over 20 shampoos)

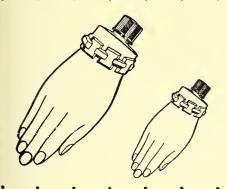
16/- plus 4/- P. Tax (Retail 4/6 each)

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Box of 3 doz. Twin Packs (two shampoos—'His' and 'Hers')
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Box of 1 doz. Baby Barrels (each containing four shampoos)

14/8 plus 3/8 P. Tax (Retail 2/3 each)



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Something unique in packaging and in hand creams. Delightful 4 oz. and 1 oz. hand shaped packs in three lovely pastel shades. Your customers will see instant results after only one application of this wonderful cream with its fresh, clean perfume.

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18/- plus 9/- P. Tax (Retail 3/6 each)



Telephone ACOrn 6791

LINC-O-LIN Universal Hair Treatment

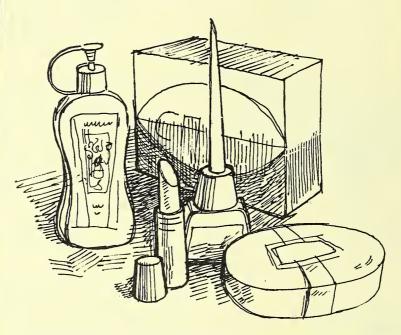
Never before has a hair treatment been so universal! Several functions performed in one application. Reconditions—stops breakage and splitting restores elasticity—controls dandruff—restores overbleached, overpermed have to silky suppleness. This delightfully perfumed Treatment is marketed in white polythene packs-enough for four applications.

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A reliable aid exists in THE CHEMIST AND DRUGGIST Tablet and Capsule Identification Guide, First published in 1956, it has twice been brought up to date with supplementary charts and is now issued as a set of eight cards, five in colour, two in diagrammatic black and white with numbered reference to the title or formula of each tablet, and the set includes a key to manufacturers. The cards are eyeletted and corded for hanging. A washable laminated surface lengthens their life. Also available, for those who may consider a paged form better suited to their requirements, is a brochure on white art paper. The brochure contains the same illustrations and information as the cards.

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CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE
Senior Pharmacist
for Bethnal Green Hospital, Modern department approved for training students. Salay
scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting, Please
apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C553

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DOVER GROUP OF HOSPITALS Senior Pharmacist
Applications are invited for the appointment of Senior Pharmacist at the Dover Group of Hospitals.
Salary £770 a year rising by one annual increment of £30 to £800 a year by six annual increments to a maximum of £1,010 a year. Applications stating age, qualifications and experience together with the names and addresses of two referees, should be made to the Hospital Secretary, Buckland Hospital, Union Road, Dover, by not later than 14 days after the appearance of this advertisement. C 6051

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Pharmacist
required, whole-time or part-time, The person appointed will work under the direction of the Group Chief Pharmacist and will undertake duties at three of the larger hospitals in the Group. Salary scale £690—£920 per annum. Applications, with names of two referees, to the undersigned, from whom further particulars can be obtained.
Victoria House,
Lign Street,
Hereford.

Group Secretary,
Hereford.

C 6077

KING EDWARD VII HOSPITAL, WINDSOR

Locum Pharmacist
required, Applications with details of service
C 6062

HOSPITALS FOR DISEASE OF THE CHEST Senior Pharmacist

Senior Pharmacist
Applications are invited for the post of Senior
Pharmacist at THE LONDON CHEST HOS-PITAL. Salary in accordance with the Whitley
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Application forms obtainable from the Group Secretary, 113 Northgate, Wakefield. C 6064

LEYTONSTONE (No. 10) HOSPITAL GROUP WHIPPS CROSS HOSPITAL (Category V), AND LANGTHORNE HOSPITAL (Category I)

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Applications are invited for the above post (full-time or part-time) to the above Group of

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Both hospitals are situated near the Central Underground Line within easy reach of Central

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Application forms obtainable from the Group
Pharmacist, Whipps Cross Hospital, London,
E.11, to be returned as soon as possible.
C 6065

KING EDWARD VII HOSPITAL, WINDSOR

Assistant-in-Dispensing required at the above hospital, Applications with details to Secretary, C 6063

LONDON HOSPITAL, WHITECHAPEL, E.1

required—Salary £690—£920 according to previous experience and service, Applications to House Governor.

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Pharmacist
Applications are invited for the post of full-time pharmacist (basic grade) to commence as soon as possible after Christmas, Apply to Physician Superintendent, C 6068

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Pharmacist required at this hospital situated in pleasant surroundings and within easy reach of London. Commencing salary £690—£815 p.a. according to experience. Late clinics up to six hours per wcek at 12s, 6d, per hour, Newly qualified Pharmacist welcomed. Applications with two referees to Secretary.

C 6050

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HOSPITAL MANAGEMENT
COMMITTEE
Chief Pharmacist (Category II)
required at Holywood Hall Hospital, Wolsingham. Salary £895—£1,200 per annum plus £25 if holding higher qualification, Consideration given to assistance with removal expenses. Free transport available from Bishop Auckland to hospital if required, Application forms from the Group Secretary, General Hospital, Bishop Auckland, C 6076

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These positions carry good progressive salaries, according to experience and qualifications. A company car is provided and expenses paid. First class pension schemes are in operation and other benefits include a profit sharing

Applications, which will be treated in strict confidence, should be sent with a recent photograph, to the Secretary, Benger Laboratories Limited, Holmes Chapel, Cheshire.

C 6031

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invite applications for employment as

MEDICAL **REPRESENTATIVES**

to augment their present field force in the United Kingdom. Applicants should be men who are pharmacists or have a medical or pharmaceutical background—and an engaging personality. Previous representative or selling experience would be an advantage. Remuneration is by salary and incentive bonus. A car is provided, lunch allowance and other expenses paid. A generous noncontributory Pension Scheme is operated, in fact, this is a CAREER OPPORTUNITY in a progressive expanding organisation. Applications giving full details should be addressed to:

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BIRMINGHAM. Gentleman required to assist manager of high-class retail department in city centre pharmacy. 42-hour week with Saturday half-day. Canteen facilities available. Apply to Mr. Ruston, Philip Harris, Ltd., Edmund Street, Birmingham. C 3274 SALES MANAGER. A first-class man is required to take over and develop sales of cosmetics through all retail outlets. This is a top flight position with excellent-salary and conditions. Experience in selling cosmetics is essential. Box C 6079.

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WHOLESALE

ASSISTANT WAREHOUSE MANAGER required. Knowledge of shipping useful, Reply stating age, previous experience and salary required. William Ransom & Son, Ltd., Hitchin, Hertfordshire. C.557 CHEMIST REQUIRED by Wright, Layman & Umney, Ltd., to take charge of modern well-equipped ampoule and injection products department. The position is suitable for a female Science Graduate or Pharmaceutical Chemist and offers interesting work and scope for advancement. Preferred age 25 to 35; ability to control staff essential. Apply in writing with full particulars of previous experience, salary required and copies of references to Works Director, 66-76 Park Street, Southwark, S.E.1.

S.E. I. C 6058

DUE TO EXPANSION OF BUSINESS, North London manufacturers will require full-time representation in all areas in the New Year; connections with retail chemist trades preferable. Our own staff have been informed of this advertisement. For preliminary interview write Box C 3275.

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at the modern Research Laboratories at Alderley Park, near Macclesfield,

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The work involved is largely non-routine and calls for an experienced man interested in the development of tableting and coating techniques. Possession of a pharmaceutical qualification would be an advantage although not essential.

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Staff Manager. Imperial Chemical Industries Limited. Pharmaceuticals Division,
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C 3290

PRICING CLERK REQUIRED. PRICING CLERK REQUIRED. Preference given to applicant used to pricing invoices for wholesale chemists' trade, or has good knowledge of retail chemists' trade and willing to learn pricing work. Permanent position. Apply in writing stating age and experience to Sccretary, Allied Drug & Chemical Co., 1 Robert Street, Hampstead Road, N.W.1. C 3261

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STOCKTAKER (resident in London area) with STOCKTAKER (resident in London area) with some retail or wholesale experience (not necessarily in stocktaking itself) required by well-known firm of professional valuers; good basic salary which will be supplemented by a bonus. The position also offers excellent prospects in return for efficient service. Please write, initially, under guaranteed assurance of confidence, with brief details of career to date and stating present salary to Box C 558.

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YOUNG PHARMACIST aged about 35 actually working on formulations and production of tablets and ointments wanted for company which is about to market a range of pharmaceutical products in common use in the home. The successful applicant will be required to play a large part in building up the business and must be able to organise staff, plan production and supervise packing from the very beginning. This is a unique opportunity for a young man who wants a career and is prepared to work hard for it. Applications giving fullest possible details of past career should be sent to: Delton, Ltd., 62/64 Baker Street, London, W.1. C 6070

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An old established pharmaceutical firm in N.W. require a Works Manager who will be responsible for general pharmaceutical manufacturing (including tablets) and development.

Applicants should bave a good pharmaceutical qualificationa chemistry diploma is also very desirable-in addition to wide experience.

The age range in mind is 36-48. A good salary will be paid according to the calibre of the appointee.

It is intended that he will be appointed to the Board after a period of probation.

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DRUGS AND PERFUMERY. A leading firm of West African merchants requires a man in Manchester head office, age 20-27 years, with initiative, energy and ambition to train as the buyer of medicines, drugs and perfumery. There is exceptional opportunity for a man who is not afraid to accept responsibility and is prepared, following the first six months in Manchester, to work in West Africa for a period of 12-18 months. The position offers both security and prospects. Commercial experience in the wholesaling or manufacturing of pharmaceuticals and patent medicines will be an advantage but is not essential, Hand-written applications (which will be treated in confidence) must state age, brief details of education, and experience to date, including National Service.

C 3289

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GOOD salesmen calling on chemists, all areas, can earn big commission on sales of internationally known line—ex factory, based in

ROXY BATHING CAPS, Agent wanted for wholesale and retail in Midlands, North and South Coast, Apply Pad Factories, Limited, 10 King Edward Street, London, E.C.1. C 6071

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YOUNG gentleman, real live wire, own car, wide experience calling on doctors, hospitals, dentists, veterlnary surgeons, chemists with ethical, pharmaceutical products, seeks position as representative in Eire for reputable pharmaceutical company. Box C 3295,

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FRENCH toiletry and perfumery company having manufacturing facilities and sales force (stores, chemists and perfumeries) wish to contact contagnies interested in setting up in France, Box C 6006.

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CASH REGISTERS FOR SALE. New and second-hand, electrically or hand-operated, Different models. Part exchange and easy terms. Write Box C 547, STOCK of drug store, Good class cosmetics and toilet goods for sale at low price. Small quantity, Also counters and cash register if required, Box C 3296.

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of the business in which it was then
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>
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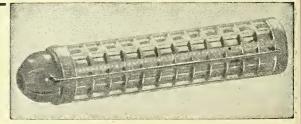
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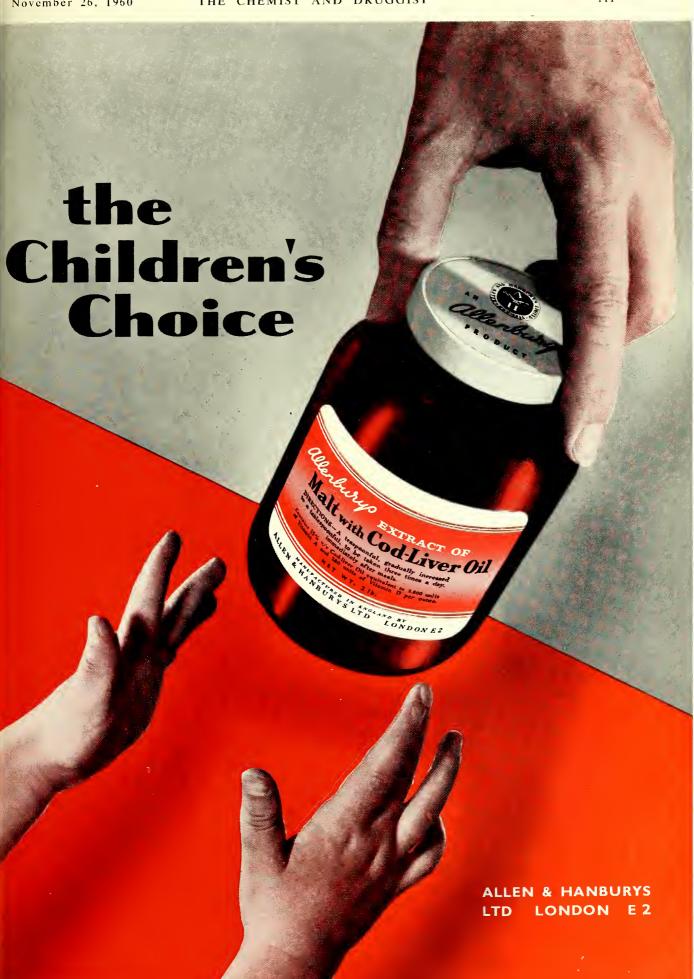
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